E.P.A.'S COPY OF
AMANA REFRIGERATION, INC.'S
NOTIFICATION, ETC. CONTINGENCY PLAN
REVISED JANUARY 1983

Howard R. Green Company
CONSULTING ENGINEERS

January 25, 1983

Iowa Department of Environmental Quality
Henry A. Wallace Building
900 East Grand
Des Moines, IA 50319

Attn: Mr. Eugene Evans

Re: Amana Refrigeration, Inc.

Dear Mr. Evans:

Enclosed for your use is the revised volume of information from Amana Refrigeration.

Briefly, the enclosed contains the following:

1. Subsequent Notification (Form 8700-12), 1-20-83.
2. Information Form 1 (Form 3510-1), as submitted 11-17-82.
3. Information Form 1 (Form 3510-1), as submitted 10-15-80.
4. Application Form 3 (Form 3510-3) final version of 1-20-83.
5. Application Form 3 (Form 3510-3), as submitted 10-15-80.
6. Attachments
   a) Listing of existing permits.
   b) Location map.
   c) Photograph of treatment/storage areas.
   d) Industrial waste listing (Revised 1/83).
7. Closure Plans; January, 1982, Revised January, 1983.
8. Contingency Plans; January, 1982, Revised January, 1983.
9. Appendix A through J.
10. Personnel Job Descriptions and Training Requirements.
11. Inspection Records Forms.
12. Training Plan Information.

Attn: Mr. Eugene Evans

Re: Amana Refrigeration, Inc.

From this information you will note that Amana Refrigeration, Inc. intends to be excluded from the requirements as the same pertain to treaters, storers and disposers of hazardous waste. As such we understand Amana will be covered only by those regulations applicable to generators. The enclosed should, therefore, satisfy these particular requirements.

As you review this material please do not hestitate to call either Mr. Steiff or myself.

Thanks again for your help and direction in this matter.

Very truly yours,

Gene H. Fritch, P.E.

mp
enclosure

cc: Robert Steiff

NOTIFICATION FORM 8700-12

Please print or type with ELITE type (12 characters/inch) in the unshaded areas only

Form Approved OMB No. 158-S70016
GSA No. 0240-EPA-OT

EPA U.S. ENVIRONMENTAL PROTECTION AGENCY
NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

INSTRUCTIONS: If you received a preprinted label, affix it in the space at left. If any of the information on the label is incorrect, draw a line through it and supply the correct information in the appropriate section below. If the label is complete and correct, leave Items I, II, and III below blank. If you did not receive a preprinted label, complete all items. "Installation" means a single site where hazardous waste is generated, treated, stored and/or disposed of, or a transporter's principal place of business. Please refer to the INSTRUCTIONS FOR FILING NOTIFICATION before completing this form. The information requested herein is required by law *(Section 3010 of the Resource Conservation and Recovery Act).*

INSTALLATION'S EPA I.D. NO.	IAD000610436
I. NAME OF INSTALLATION	AMANA REFRIGERATION INC.
II. INSTALLATION MAILING ADDRESS	AMANA, IOWA 52204
III. LOCATION OF INSTALLATION	CORNER OF FIRST & D STREET MIDDLE, IOWA 52307

DETACH

FOR OFFICIAL USE ONLY

COMMENTS: C

INSTALLATION'S EPA I.D. NUMBER	APPROVED	DATE RECEIVED (yr., mo., & day)
B F I A D 0 0 0 6 1 0 4 3 6 T/A C 1		

I. NAME OF INSTALLATION

AMANA REFRIGERATION, INC.

II. INSTALLATION MAILING ADDRESS

STREET OR P.O. BOX: C 3

CITY OR TOWN	ST.	ZIP CODE
C 4 AMANA	IA	52204

III. LOCATION OF INSTALLATION

STREET OR ROUTE NUMBER: C 5 CORNER OF FIRST & D STREET

CITY OR TOWN	ST.	ZIP CODE
C 6 MIDDLE	IA	52307

IV. INSTALLATION CONTACT

NAME AND TITLE (last, first, & job title)	PHONE NO. (area code & no.)
C 2 STEIFF, ROBERT SUPT. WASTE TREAT	319-622-5511

V. OWNERSHIP

A. NAME OF INSTALLATION'S LEGAL OWNER: C 8 AMANA REFRIGERATION, INC.

B. TYPE OF OWNERSHIP (enter the appropriate letter into box): F = FEDERAL, M = NON-FEDERAL — M

VI. TYPE OF HAZARDOUS WASTE ACTIVITY *(enter "X" in the appropriate box(es))*

- [X] A. GENERATION
- [ ] B. TRANSPORTATION *(complete item VII)*
- [ ] D. UNDERGROUND INJECTION

VII. MODE OF TRANSPORTATION *(transporters only – enter "X" in the appropriate box(es))*

- [ ] A. AIR
- [ ] B. RAIL
- [ ] C. HIGHWAY
- [ ] D. WATER
- [ ] E. OTHER *(specify):*

VIII. FIRST OR SUBSEQUENT NOTIFICATION

Mark "X" in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA I.D. Number in the space provided below.

- [ ] A. FIRST NOTIFICATION
- [X] B. SUBSEQUENT NOTIFICATION *(complete item C)*

C. INSTALLATION'S EPA I.D. NO.: IAD006104366

IX. DESCRIPTION OF HAZARDOUS WASTES

Please go to the reverse of this form and provide the requested information.

I.D. – FOR OFFICIAL USE ONLY

W

IX. DESCRIPTION OF HAZARDOUS WASTES *(continued from front)*

A. HAZARDOUS WASTES FROM NON–SPECIFIC SOURCES. Enter the four–digit number from 40 CFR Part 261.31 for each listed hazardous waste from non–specific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
	F002	F003	F005		
7	**8**	**9**	**10**	**11**	**12**

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES. Enter the four–digit number from 40 CFR Part 261.32 for each listed hazardous waste from specific industrial sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	**20**	**21**	**22**	**23**	**24**
25	**26**	**27**	**28**	**29**	**30**

C. COMMERCIAL CHEMICAL PRODUCT HAZARDOUS WASTES. Enter the four–digit number from 40 CFR Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
U223					
37	**38**	**39**	**40**	**41**	**42**
43	**44**	**45**	**46**	**47**	**48**

D. LISTED INFECTIOUS WASTES. Enter the four–digit number from 40 CFR Part 261.34 for each listed hazardous waste from hospitals, veterinary hospitals, medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. CHARACTERISTICS OF NON–LISTED HAZARDOUS WASTES. Mark "X" in the boxes corresponding to the characteristics of non–listed hazardous wastes your installation handles. *(See 40 CFR Parts 261.21 – 261.24.)*

[X] 1. IGNITABLE (D001)	[X] 2. CORROSIVE (D002)	[X] 3. REACTIVE (D003)	[ ] 4. TOXIC (D000)

X. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE	NAME & OFFICIAL TITLE *(type or print)*	DATE SIGNED
Wayne A Giddings	Wayne A. Giddings Sr. V.P.-Manufacturing & Engineering	1-20-83

INFORMATION FORM 3510-1

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: F IAD 0 00610 436 D

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

LABEL ITEMS

I. EPA I.D. NUMBER

II. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

IAD000610436
AMANA REFRIGERATION, INC.
AMANA, IOWA 52204

CORNER OF FIRST & D STREET,
MIDDLE, IOWA 52307

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X		
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X		
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP: AMANA REFRIGERATION, INC.

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 ROBERT STEIFF SUPT. OF WASTE TREATMENT	319 622 5511

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX: 3 N/A

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 AMANA,	IA	52204

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 5 CORNER OF FIRST & D STREET

B. COUNTY NAME: IOWA

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 MIDDLE,	IA	52307	48

EPA Form 3510-1 (8-88)

CONTINUED FROM THE FRONT

VII. SIC CODES (4-digit, in order of priority)

	(specify)		(specify)
A. FIRST	3632 Household Refrigerators & Home & Farm Freezers	B. SECOND	3631 Microwave Ovens
C. THIRD		D. FOURTH	

VIII. OPERATOR INFORMATION

A. NAME: AMANA REFRIGERATION, INC.

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.) F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify): P

D. PHONE (area code & no.): 319 622 5511

E. STREET OR P.O. BOX: N/A

F. CITY OR TOWN: AMANA

G. STATE: IA

H. ZIP CODE: 52204

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)	9 N 48-02-01-02	D. PSD (Air Emissions from Proposed Sources)	9 P N/A
B. UIC (Underground Injection of Fluids)	9 U N/A	E. OTHER (specify)	9 (specify) See attached listing of IA & IL Special Waste Disposal Authorizations
C. RCRA (Hazardous Wastes)	9 R N/A	F. OTHER (specify)	9 (specify)

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Manufacture of refrigerators, freezers and combination refrigerator-freezers; also manufacture of microwave ovens.

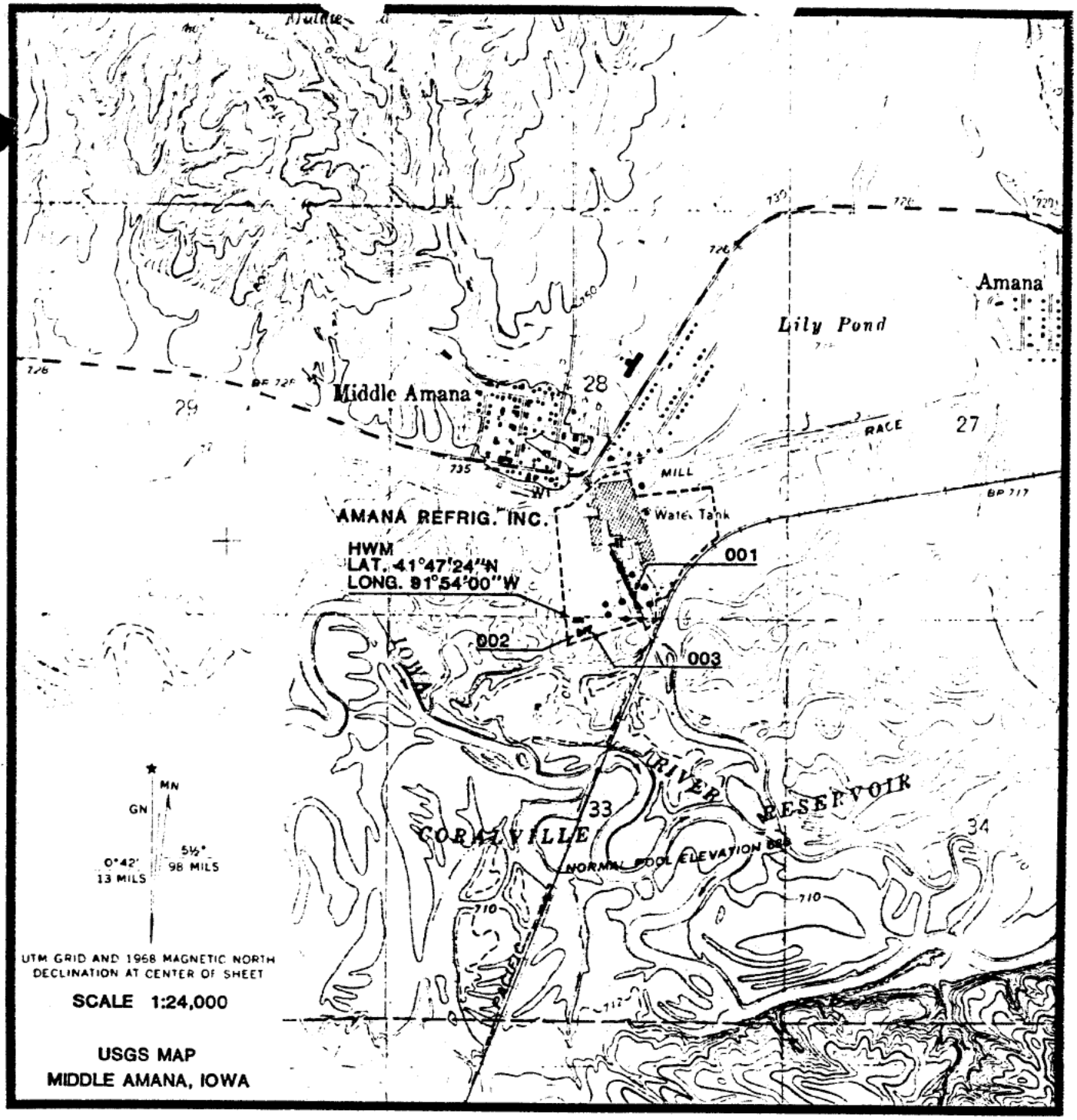
XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Wayne A. Giddings, Senior V.P., Manufacturing & Engineering	Wayne A Giddings	11-17-83

COMMENTS FOR OFFICIAL USE ONLY

C



LEGEND :

PROPERTY LINE

DRINKING WATER WELLS

DISCHARGE STRUCTURES

LOCATION MAP

AMANA REFRIGERATION, INC.

AMANA, IOWA

HOWARD R. GREEN COMPANY

CONSULTING ENGINEERS
4250 GLASS RD., P.O. BOX 9009 • CEDAR RAPIDS, IOWA 52409

REVISED 11/82

ATTACHMENT TO FORM 3

AMANA REFRIGERATION, INC.

IAD000610436

EXISTING PERMITS

(Includes S.W.A., N.P.D.E.S., Water, IL Permits)

S.W.A. - Iowa Special Waste Authorizations:

Sludge	Landfill	Permit No.	Issuance Date	Expiration Date	Renewal Date
1. Vacuum Filter	Cedar Rapids	5703032582-6	4/1/82	4/1/83	2/1/83
2. Tramp Oil	Cedar Rapids	5703032582-5	4/1/82	4/1/83	2/1/83

Iowa N.P.D.E.S. Permit:

48-02-01-02	8/25/81	6/30/86	10/1/85

Water Permit:

Iowa Natural Resources Council Water Permit	2565-RMI	4/6/79	4/6/89	1/30/89

Illinois Permit:

Sludge	Landfill	Permit No.	Issuance Date	Expiration Date	Renewal Date
Paint Booth	Andalusia/Watts	811523	8/21/81	8/13/83	5/13/83

Please print or type in the unshaded areas only (fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL — EPA — U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER: ~~F IA D005277678~~ D — 1-13-83 [initials]

LABEL ITEMS

- I. EPA I.D. NUMBER
- III. FACILITY NAME
- V. FACILITY MAILING ADDRESS
- VI. FACILITY LOCATION

~~IA D005277678~~ IAD000610436

AMANA REFRIGERATION, INC. 1-13-83 [initials]

AMANA, IOWA 52204

~~MIDDLE, IOWA 52307~~ 1-13-83 [initials]

GENERAL INSTRUCTIONS

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II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	X			D. Is this a proposed facility *(other than those described in A or B above)* which will result in a discharge to waters of the U.S.? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)	X			F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP AMANA REFRIGERATION, INC.

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title) 1-13-83 [initials]	B. PHONE (area code & no.)
2 ~~RETTIG, LEONARD CHIEF ENGINEER-CONSTRUCT.~~	319 622 5511

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 N/A

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 AMANA	IA	52204

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

N/A

B. COUNTY NAME

IOWA

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 MIDDL#	IA	52307	

CONTINUED FROM THE FRONT

SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
3632 (specify) Household Refrigerators & Home and Farm Freezers.	C 7 3631 (specify) Microwave Ovens
C. THIRD	**D. FOURTH**
(specify)	C 7 (specify)

I. OPERATOR INFORMATION

A. NAME

AMANA REFRIGERATION, INC.

B. Is the name listed in Item VIII-A also the owner? [X] YES [ ] NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC (other than federal or state); O = OTHER (specify)

P (specify)

D. PHONE (area code & no.) C A 319 622 5511

E. STREET OR P.O. BOX

N/A

F. CITY OR TOWN

AMANA

G. STATE IA

H. ZIP CODE 52204

IX. INDIAN LAND

Is the facility located on Indian lands? [ ] YES [X] NO

EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) N 48 02 102	**D. PSD** (Air Emissions from Proposed Sources) C 9 P N/A
B. UIC (Underground Injection of Fluids) U N/A	**E. OTHER** (specify) C 9 (specify) See attached listing of Iowa & Ill. Special Waste Disposal Authorization.
C. RCRA (Hazardous Wastes) R N/A	**E. OTHER** (specify) C 9 (specify)

. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show he outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste reatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface vater bodies in the map area. See instructions for precise requirements.

I. NATURE OF BUSINESS (provide a brief description)

Manufacture of refrigerators, freezers and combination refrigerator-freezers; also manufacture microwave ovens.

II. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
Wayne A. Giddings Sr. Vice President-Manufacturing	Wayne A. Giddings	10/15/80

OMMENTS FOR OFFICIAL USE ONLY

APPLICATION FORM 3510-3

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER: F I A D 0 0 0 6 1 0 4 3 6 | T/A: | C: 1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

FOR EXISTING FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

C 8 | YR. | MO. | DAY

☐ 2. NEW FACILITY *(Complete item below.)*

FOR NEW FACILITIES, PROVIDE THE DATE (yr., mo., & day) OPERATION BEGAN OR IS EXPECTED TO BEGIN

YR. | MO. | DAY

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

☒ 1. FACILITY HAS INTERIM STATUS

☐ 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G
LITERS	L
CUBIC YARDS	Y
CUBIC METERS	C
GALLONS PER DAY	U
LITERS PER DAY	V
TONS PER HOUR	D
METRIC TONS PER HOUR	W
GALLONS PER HOUR	E
LITERS PER HOUR	H
ACRE-FEET	A
HECTARE-METER	F
ACRES	B
HECTARES	Q

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C DUP | T/A | C 1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	B. PROCESS DESIGN CAPACITY 2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1					7				
2		N/A			8				
3					9				
4					10				

Continued from the front.

III. PROCESSES *(continued)*

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES *(code "T04")*. FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

N/A

IV. DESCRIPTION OF HAZARDOUS WASTES

A. **EPA HAZARDOUS WASTE NUMBER** – Enter the four–digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four–digit number*(s)* from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. **ESTIMATED ANNUAL QUANTITY** – For each **listed waste** entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each **characteristic** or toxic **contaminant** entered in column A estimate the total annual quantity of all the non–listed waste*(s)* that will be handled which possess that characteristic or contaminant.

C. **UNIT OF MEASURE** – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. **PROCESSES**

1. PROCESS CODES:
   For listed hazardous waste: For each **listed** hazardous waste entered in column A select the code*(s)* from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non–listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code*(s)* from the list of process codes contained in Item III to indicate **all** the processes that will be used to store, treat, and/or dispose of all the non–listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code*(s)*.

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV *(shown in line numbers X-1, X-2, X-3, and X-4 below)* – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non–listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

Continued from page 2.
NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1)	T/A	C	FOR OFFICIAL USE ONLY		T/A	C	
VIAD000610436		1	W	DUP		2	DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1					
2		N/A			
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

Continued from the front.

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 3.

N/A

EPA I.D. NO. (enter from page 1)

FIAD006104366

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures, existing storage, treatment and disposal areas, and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE (degrees, minutes & seconds)	LONGITUDE (degrees, minutes & seconds)
41 47 24 N	91 54 00 W

VIII. FACILITY OWNER

X A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. (area code & no.)
N/A	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
Wayne A. Giddings, Senior Vice President-Manufacturing & Engineering	Wayne A Giddings	1-20-83

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME (print or type)	B. SIGNATURE	C. DATE SIGNED
N/A		

Form Approved OMB No. 158-S80004

V. FACILITY DRAWING *(see page 4)*

AMANA REFRIGERATION, INC.

AMANA, IOWA

N

100 0 100 200
SCALE FT.

1280'

210'

360'

360'

320'

140'

MANUFACTURING FACILITY

DRUM
STORAGE AREA

100'
65'

TREATMENT/STORAGE
BLDG.

1,010'

110'

140'

180'

100'

250'

300'

210'

PROPERTY LINE

1,720'

AUGUST 1980

(1) EXISTING INDUSTRIAL WASTEWATER TREATMENT BUILDING
(2) EXISTING HAZARDOUS WASTE DRUM STORAGE AREA
PHOTOGRAPH TAKEN 7-18-80

(fill-in areas are spaced for elite type, i.e., 12 characters/inch).

Form Approved OMB No. 158-S80004

FORM 3 RCRA

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

HAZARDOUS WASTE PERMIT APPLICATION

Consolidated Permits Program

(This information is required under Section 3005 of RCRA.)

I. EPA I.D. NUMBER 7-13-83 YHA.

S												T/A	C
~~F~~	~~LA~~	~~D~~	~~0~~	~~0~~	~~5~~	~~2~~	~~7~~	~~7~~	~~6~~	~~7~~	~~8~~		1

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (yr., mo., & day)	COMMENTS

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below *(mark one box only)* to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA I.D. Number, or if this is a revised application, enter your facility's EPA I.D. Number in Item I above.

A. FIRST APPLICATION *(place an "X" below and provide the appropriate date)*

[X] 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

[ ] 2. NEW FACILITY *(Complete item below.)*

C	YR.	MO.	DAY
8	78	11	08

FOR EXISTING FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*

YR.	MO.	DAY

FOR NEW FACILITIES, PROVIDE THE DATE *(yr., mo., & day)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Item I above)*

[ ] 1. FACILITY HAS INTERIM STATUS

[ ] 2. FACILITY HAS A RCRA PERMIT

III. PROCESSES – CODES AND DESIGN CAPACITIES

A. PROCESS CODE – Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process *(including its design capacity)* in the space provided on the form *(Item III-C)*.

B. PROCESS DESIGN CAPACITY – For each code entered in column A enter the capacity of the process.

1. AMOUNT – Enter the amount.
2. UNIT OF MEASURE – For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER *(barrel, drum, etc.)*	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS
Disposal:		
INJECTION WELL	D79	GALLONS OR LITERS
LANDFILL	D80	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER
LAND APPLICATION	D81	ACRES OR HECTARES
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D83	GALLONS OR LITERS
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
OTHER *(Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided; Item III-C.)*	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING ITEM III *(shown in line numbers X-1 and X-2 below)*: A facility has two storage tanks, one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

C	DUP	T/A	C
C	DUP		1

LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY 1. AMOUNT	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	~~S 0 1~~	~~42,900~~ 1-13-83 YHA	~~G~~		7				
		1-13-83			8				
3	~~T 0 1~~	~~133,500~~ YHA.	~~U~~		9				
4					10				

Continued from the front.

III. PROCESSES (continued)

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

N/A

IV. DESCRIPTION OF HAZARDOUS WASTES

A. EPA HAZARDOUS WASTE NUMBER – Enter the four–digit number from 40 CFR, Subpart D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four–digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.

B. ESTIMATED ANNUAL QUANTITY – For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non–listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE – For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:
   For listed hazardous waste: For each listed hazardous waste entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility.
   For non–listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in Item III to indicate all the processes that will be used to store, treat, and/or dispose of all the non–listed hazardous wastes that possess that characteristic or toxic contaminant.
   Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER – Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) – A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non–listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. EPA HAZARD. WASTE NO (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2				included with above

Continued from page 2.
NOTE: Photocopy this page before completing. 1-13-83 YH7 ...e more than 26 wastes to list.

Form Approved OMB No. 158-S80004

EPA I.D. NUMBER (enter from page 1): WIA D005277678 T/A C 1

FOR OFFICIAL USE ONLY: W DUP T/A C 2 DUP

IV. DESCRIPTION OF HAZARDOUS WASTES (continued)

LINE NO.	A. EPA HAZARD. WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)	D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	F002	550	T	S01	Sent for recycling.
2	F005		T	S01	Included in Line 1.
3	F005		T	S01	Included in Line 5.
4	F005	80	T	S01	Sent for recycling.
5	F017	206	T	S01	Sent for disposal
6	F018	60	T	T01 S01	Sent for disposal.
7	D002	70	T	S01 T01	Made non hazardous. 1-13-83 YH7
8	U229	186	T	S01	Sent for disposal.
9	U223	186	T	S01	Sent for disposal.
10	U238		T	S01	Included in Line 1.
11	D007	42,800	T	T01	Made non-hazardous.
12	F017	6	T	S01	Sent for disposal.
13	F018	99	T	T01 S01	Sent for disposal.
14	F001	6	T	S01	Sent for recycling.
15	D002	70	T	S01	Sent for disposal.
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					

See attached Industrial Waste Listing, Amana Refrigeration, Inc, Amana, Iowa, November, 1982; Revised January, 1983.

ntinued from the front.

/. DESCRIPTION OF HAZARDOUS WASTE. *ntinued)*

. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM ITEM D(1) ON PAGE 5.

N/A

EPA I.D. NO. *(enter from page 1)* 1-13-83 MH

T A D 0 0 5 2 7 7 6 7 8 | | 6

/. FACILITY DRAWING

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail).*

VI. PHOTOGRAPHS

All existing facilities must include photographs *(aerial or ground–level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail).*

VII. FACILITY GEOGRAPHIC LOCATION

LATITUDE *(degrees, minutes, & seconds)*	LONGITUDE *(degrees, minutes, & seconds)*
41 47 24	91 54 00

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VIII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

B. If the facility owner is not the facility operator as listed in Section VIII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER	2. PHONE NO. *(area code & no.)*
N/A	

3. STREET OR P.O. BOX	4. CITY OR TOWN	5. ST.	6. ZIP CODE
	C G		

X. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED
Wayne A. Giddings Sr. Vice President-Manufacturing	Wayne A Giddings	10-15-80

XI. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME *(print or type)*	B. SIGNATURE	C. DATE SIGNED

CONTINUE ON PAGE 5

INDUSTRIAL WASTE LISTING
AMANA REFRIGERATION, INC.
AMANA, IOWA
NOVEMBER, 1982
REVISED JANUARY, 1983

TOLUENE

Toluene is a listed waste from non-specific sources, No. F005 (I) (T), as indicated in 40 CFR 261.31.

This waste is generated from the cleaning and flushing of our (acrylic paint) painting operations; in 1982 we generated from January through October, 225 55-gallon drums, which is accumulated in our hazardous waste storage area, to approximately 75 drums or less than 90 days, whichever occurs first. It is then shipped out for recycling. Anticipated quantity to be generated in 1983 is 310 drums.

Toluene is being recycled at Waste Research & Reclamation Company, Inc., Eau Claire, Wisconsin.

This waste was listed as an F005 on our notification form 8700-12 of 7/30/80, and will appear as an F005 on our subsequent notification of January 1983.

RAW PAINT

Raw paint is not a listed waste. Raw paint is an ignitable waste under 40 CFR 261.21 and carries the number D001.

Raw paint waste is only generated from an accidental leak, spill or contamination of the raw product. The amount generated is very minimal; in 1981 to October 1982, none was generated.

Raw paint, if generated, can be disposed of at SCA Chemical Services, Chicago, Illinois, or at Waste Research & Reclamation Company, Inc., Eau Claire, Wisconsin, within 90 days of a request.

This waste was listed as an F017 on our notification form 8700-12 of 7/30/80. As F017, was removed from the Hazardous List, Federal Register, January 16, 1981, and now falls under D001, as it will appear on our subsequent notification of January 1983.

ELECTRO-DEPOSITION OF PAINT

Electro-deposition painting generates a number of wastes in the process. Waste is generated from filter cleaning and tank maintenance.

Electro-deposition paint is a composition of three basic parts: Vehicle, Paste, D.I. Water. The waste solution is treated with caustic soda to a P.H. of 12. This separates the suspended solids from the liquid. Then then leaves a firm, rubber-like waste sludge. The liquid parts is decanted and treated with sulfuric acid, sodiumsulfide and polyelectrolite. This precipates the dissolved metals. This sludge is then disposed of under S.W.A. Permit No. 5703032582-6. The liquid decant is discharged under N.P.D.E.S. Permit No. 48-02-01-02, outfall No. 002.

The removed rubbery solid waste was formerly a listed waste, No. F018, now a non-existing number; from 1980 through the present time we have generated 20 55-gallon drums. The anticipated rate of generation for 1983 is 8 drums.

We have tested this waste for EP toxicity to show that it can be excluded under 40 C.F.R. 261.3 (d) (1).

Disposal of this waste will be in accordance with the SWA presently being applied for.

The untreated waste was listed as an F018 on our notification form 8700-12 of 7/30/80 and is listed on our subsequent notification of January 1983 as a toxic waste.

ANOLYTE AND PERMEATE

Also generated by the electro-deposition painting process, the anolyte is removed by a membrane filtering system removing a clear, acidic liquid build-up from the unit. This is mixed with the permeate before treatment.

The permeate is generated from an ultra-filter (membrane type) removing the surplus liquid generated from D.I. water rinsing of the painted parts. The resulting mixture is then batch-treated with sodium sulfide and polyelectrolite to precipitate the heavy metals. The liquor is then decanted and discharged in outfall 002 N.P.D.E.S. Permit No. 48-02-01-02. The resulting sludge under S.W.A. Permit No. 5703032582-6 is disposed of in a landfill.

Of the above mixture we generate approximately 4,000 gallons a month resulting in approximately four gallons of sludge per month. In addition, one product is used to clean the ultra-filter approximately four times a year. "Additive Z" is used as a cleaning agent

for the filter membrane. This generates approximately 450 gallons per cleaning. This is treated with alum, sulfuric acid, sodium-sulfite and polyelectrolite. The resultant liquid is decnated and discharged in outfall No. 002 N.P.D.E.S. Permit No. 48-02-01-02. The resulting sludge, approximately 20 gallons, is disposed of in a landfill as S.W.A. Permit No. 5703032582-6. As with the previous waste, this is also excluded under 40 C.F.R. 122.21 (d) (2) (IV) (V) and 40 C.F.R. 261.4 (a) (2).

These wastes were listed as F018 on our notification form 8700-12 of 7/30/80. No. F018 is a non-existing number as of January 16, 1981. Therefore, the untreated wastes will be listed on our subsequent notification of January 1983 as a toxic waste. They are exempt from further permitting requirements by 40 C.F.R. 122.21 (d) (2) (IV) (V) and 40 C.F.R. 261.4 (a) (2) as a hazardous waste.

1-1-1 TRICHLOROETHANE

This waste is generated from the hand-wiping of small metal parts; January - October, of 1982, 150 gallons were generated. This is stored in the hazardous waste storage area for no more than 90 days at which time it is shipped for recycling. The anticipated amount to be generated in 1983 is 210 gallons.

This waste is being recycled at Waste Research & Reclamation Company Inc., Eau Claire, Wisconsin.

This waste was listed as an F001 on our notification form 8700-12 of 7/30/80 and will appear as an F002 on our subsequent notification of January 1983.

WASTES FROM URETHANE-FOAMING OPERATION, TOLUENE DIISOCYONATE (PART A), POLYETHERPOLYOL (PART B).

TOLUENE DIISOCYONATE (PART A).

This is used as Part A of a urethane foam insulation process; also used in this process is Part B, Polyetherpolyol.

The waste generated from this operation results from minor contamination of moisture or small spills such as a leaking seal on a pump, cleaning of a filter, etc. The two wastes are kept segregated from each other, therefore, leaving a waste much like the raw product received from the vendor.

Toluene Diisocyonate Part A is a listed waste, No. U223 (T), 40 C.F.R. 261.3 (a) (2) (ii). The Toluene Diisocyonate was listed as a U223 on our notification form 8700-12 of 7/30/80. This waste will remain a U223 on our subsequent notification of January 1983. This waste will be disposed of by SCA Chemical Services, Chicago, Illinois or Commercial Pumpers & Incineration, Highland, Indiana.

Stored for no more than 90 days, the estimated quantity to be generated in 1983 is 16 drums.

POLYETHER POLYOL (PART B)

This is a hazardous waste as per 40 C.F.R. 261.3 (b) (3) and falls under D003 for reactivity.

This waste was listed as a U229 on our notification form 8700-12 of 7/30/80. The waste, No. U229, is now a non-existing number therefore it will be listed as a D003 on our subsequent notification of January 1983.

We have generated 6 55-gallon drums from January through October, 1982. This waste will be stored in our hazardous waste storage area, where it will be accumulated for no more than 90 days. The estimated quantity to be generated in 1983 is 9 drums. This waste will be disposed of by SCA Chemical Services, Chicago, Illinois, or Commercial Pumpers & Incineration, Highland, Indiana, or Chemical Waste Management, Inc., Calumet City, Illinois.

METHYLENE CHLORIDE

This waste is generated from the urethane foam insulation operation. It is used to flush or clean the application equipment. Small quantities of Methanol and Urethane foam are mixed with the Methylene Chloride in the above operation. From January through October, 1982, we generated 15 55-gallon drums. This waste will be stored in our hazardous waste storage area. It is accumulated no more than 90 days, at which time it is sent for recycling. The estimated quantity generated for 1983 is 21 drums.

This waste is being recycled at McKesson Envirosystems, Fort Wayne, Indiana.

This waste was listed as an F002, F005, U238 on our notification form 8700-12 of 7/30/80. On November 11, 1980, methanol was changed from F005 to an F003, at which time we amended page 3 of form 3510-3 to show the change.

Urethane foam as U238 no longer exists as per 40 C.F.R. 261.33 (f) therefore the waste will be listed as F002 and F003 on our subsequent notification form 8700-12 of January 1983.

SODIUM HYDROXIDE (KOLENE SALT)

This waste is generated from our paint stripping operation. We generate approximately 4,000 lbs. a month. This waste is batch-treated by dissolving the Sodium Hydroxide in water. This results in a liquor with a pH of 13.5 and approximately 10% suspended solids.

After settling, the liquor is decanted and used as a caustic solution to raise the pH of the Chromium and Zinc waste treating system and becomes part of our Outfall No. 003 N.P.D.E.S. Permit No. 48-02-01-02. The solids part of the waste are used to raise the pH of the batch treatment of our paint booth waste and becomes part of our S.W.A. Permit No. 5703032582-6. The above procedure renders the Sodium Hydroxide (Kolene Salt) waste non-hazardous, in accordance with 40 C.F.R. 122.21 (d) (2) (vi) and 40 C.F.R. 264.1 (g) (6).

This waste was listed as a D002 on our notification form 8700-12 of 7/30/82 and will remain on our subsequent notification of January 1983 only because we generate this waste.

HEXAVALENT CHROMIUM RINSE

Hexavalent Chromium is generated in our parts washer prior to our painting operation. It is used as a recirculated rinse following a zinc phosphatizing process. In addition, this is followed by a D.I. water recirculated rinse and a final rinse of D.I. water. This rinse overflows the recirculated rinse tank which contains Chromium VI. This then is pumped into an underground

5,000 gallonn equalization tank, complete with inspection access manhole, then pumped into a treatment tank where Sodium Bisulfite and Sulfuric Acid are added to reduce the Hexavalent Chromium to Trivalent Chromium. This then gravity-flows into a two-stage pH adjustment system, adjusting final pH to 9.5. Ferrous Sulfate is also added in this process. The effluent then gravity-flows into two (2) membrane filtering systems, removing the suspended solids from the liquor. The clear effluent is then discharged into Outfall 003 N.P.D.E.S. Permit No. 48-02-01-02. The remaining solids are then pumped into a centrifuge. The resulting centrate is recirculated into the pH adjustment tanks. The remaining sludge out of the centrifuge is then processed by a vacuum filter and is disposed of in a landfill under S.W.A. Permit No. 5703032582-6. We generate approximately 9,000 gallons of Chromium rinse a day. The above process renders this waste non-hazardous. As per 40 C.F.R. Part 122.21 (d) (2) (iv) (v) and in accordance with the exemption of 40 C.F.R. 264.1 (g) (6); further permitting it not required.

This waste was listed as D007 on our notification form 8700-12 of 7/30/80. It will remain on our subsequent notification of January 1983, only because we generate this waste.

PAINT BOOTH WASTE

This waste was listed as an F017 on our notification form 8700-12 of 7/30/80. However, this number was removed from the Hazardous Waste List in Federal Register, January 16, 1981. As it no longer

falls under any of the hazardous waste regulations, it will not appear on our subsequent notification.

We generate approximately 30 55-gallon drums per month. This is being disposed of in a landfill on Illinois Permit No. 811523.

TREATED PAINT BOOTH WASTE

This waste was listed as an F018 on our notification form 8700-12 of 7/30/80. This number has also been removed from the Hazardous Waste List in Federal Register, January 16, 1981. This waste does not fall under any of the hazardous waste regulations and will not be listed on our subsequent notification.

We generate approximately 80 gallons of this waste per month to be disposed of in a landfill under S.W.A. Permit No. 5703032582-6.

ACETONE

Listed on Form EPA 8700-12 of 7/30/80 as a U002. Since our production process no longer generates any waste Acetone, it is deleted from our subsequent notification form of January 1983.

PENTACHLOROETHANE

Listed on Form EPA 8700-12 of 7/30/80 as U184. Since our production process no longer generates any waste Pentachloroethane it is deleted from our subsequent notification form of January 1983.

CLOSURE REVISED 1983

JANUARY - 1982

REVISED JANUARY - 1983

AMANA REFRIGERATION CLOSURE PLAN

Amana Refrigeration, Inc.
Amana, Iowa 52204
(319) 622-5511

AMANA REFRIGERATION, INC. CLOSURE PLAN

The maximum anticipated amount of waste in storage and in treatment is estimated to be 50,270 gallons.

The following is a description of the steps needed to decontaminate each of the hazardous waste generating, storage and treatment systems at Amana Refrigeration, Inc.

1. Chrome waste - The chrome stages in both the large and small washers will be treated in the same manner. The parts washer tank will be drained to the waste treatment plant. After it is drained, it will be decontaminated. Plastic line from the parts washer to the waste treatment will be flushed and decontaminated. Liquid from this operation will be treated at the waste treatment plant.

   The underground storage tank at the waste treatment plant then will be drained and run through the Water Purification System (W.P.S.). The tank will be flushed and then decontaminated. This liquid will also be run through the W.P.S. units. Next, the reduction tank will be drained and run through the W.P.S. unit. After this is done, both P.H. adjustment tanks will be flushed and decontaminated. This liquid will also be run through the W.P.S. units. The remaining liquid in the W.P.S. units will be pumped into a batch treatment tank and treated in that tank. The flush water and decontamination water will also be treated in the same manner. All sludges from this action are non-hazardous and will be disposed of in an approved landfill.

2. Paint mix tanks and piping will be drummed and sent to a disposal facility. The tank and line will be flushed and decontaminated; that waste, including all waste solvent, will also be sent to a recycler.

3. Kolene salt - The paint strip unit will be emptied into 55-gal. drums. Drums will be taken to waste treatment building where it will be treated. By dissolving salts the resulting decant will be treated in water purification system. The sludge will be neutralized with sulphuric acid to make it non-hazardous and then disposed of in an approved sanitary landfill.

4. Foam Department - All storage tanks will be drained and the liquid will be sent back for reuse. Then the storage tanks, all piping and foaming equipment will be flushed and decontaminated. The sludges produced from this procedure will be drummed. The drums will be disposed of at an approved disposal site. The liquid flushed from this process will be sent to a recycler.

5. Electro-Deposit Paint System -

   1) Reduce volume by operation of anolyte membrane system and ultra-filter system.

   2) Batch-treat remaining paint with caustic decant liquid and treat as shown in Step 3. Dispose of treated paint sludge in approved disposal site.

   3) Treat anolyte permeate and decant liquid from Step 2 to make non-hazardous. Decontaminate treatment tanks and dispose of non-hazardous waste sludge in approved disposal site.

6. Accumulations of waste in the storage area will be sent for recycling or disposal, as applicable.

The final closure of the facility will be within 90 days after production shutdown.

Cost estimate for facility closure for 1982 is $31,178.00. Cost estimate will be up-dated in accordance with 40 CFR 265.142.

Liability requirements - An endorsement to our present insurance policy will be obtained, with the provisions required by the EPA.

Closure requirements - A surety bond guaranteeing payment into a closure fund will be obtained when required by the EPA.

JANUARY - 1982
REVISED JANUARY - 1983

HAZARDOUS WASTE CONTINGENCY PLAN
AND EMERGENCY PROCEDURES

F O R

AMANA REFRIGERATION, INC.
FIRST AND D STREET
MIDDLE, IOWA 52307

P R E F A C E

THE PURPOSE OF THIS CONTINGENCY PLAN IS TO DESCRIBE THE ACTIONS FACILITY PERSONNEL MUST TAKE IN RESPONSE TO FIRE, EXPLOSION OR RELEASES OF HAZARDOUS WASTE TO THE ENVIRONMENT.

THIS PLAN WILL BE REVIEWED AND AMENDED WHENEVER APPLICABLE REGULATIONS ARE REVISED, THE PLAN FAILS IN AN EMERGENCY, THE FACILITY CHANGES IN A MANNER THAT IMPACTS RESPONSE TO AN EMERGENCY, THE LIST OF EMERGENCY COORDINATORS CHANGES OR THE LIST OF EMERGENCY EQUIPMENT CHANGES.

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APPENDIX

I. FACILITY DESCRIPTION

1. The Facility is used to manufacture home freezers, combination refrigerator-freezers and microwave ovens. It has 1,300,000 sq. ft. of floor space, employing approximately 3,000.

   The Facility's manufacturing operation is 16 hours for 5 days a week, except for maintenance of equipment which operates 24 hours for 5 days a week.

   Other plant activities are normally conducted from 8:00 A.M. to 5:00 P.M., Monday through Friday. Security is provided by 2 Security Guards, on duty 24 hours, 7 days a week.

   Communications are provided for fire brigade, sprinkler alarm, area or plant evacuation for fire or other emergencies, summon emergency coordinator and other designated hazardous spill control personnel.

   Communication equipment consists of a radio voice and signal system by speakers located throughout the Facility; by telephones located throughout the Facility; capability to communicate over radio voice system and by hand-held 2-way radio.

   Sprinkler system fire alarm is by sound signal and annunciator board monitored by Security Guards.

   First-Aid Facility is located in the manufacturing area and is attended by a nurse 16 hours, Monday - Friday.

   The Facility is protected by 33 wet and 9 dry sprinkler systems, plus 1-1/2" hose lines strategically located throughout the Facility and on the roof. In addition to the above, fire hydrants are located around the outside of the Facility housed in enclosures containing 2-1/2" fire hoze nozzles and related equipment.

   Water is supplied from a 150,000-gallon underground tank and a 1,000 G.P.M. electric motor-driven fire pump and/or from a 300,000-gallon above-ground steel storage tank and a 1,500 G.P.M. diesel-driven fire pump and/or a 100,000-gallon water tower (50# pressure gravity only). All above conforms to Industrial Risk Insurance specifications for sprinkled areas and buildings. See Appendix B.

   The Facility is divided by fire walls and fire curtains isolating fire hazardous materials from production areas and production areas from finished product warehouse areas. For locations, see Appendix B.

2. Nature of Waste Streams -

Hazardous waste is generated from the following:

A. Parts Washer
B. Spray Paint Booths
C. Automatic Paint Spray System
D. Electro-Deposition Paint System
E. Kolene Paint Strip Operation
F. Raw Paint Products from Manufacturer
G. Polyurethane Foaming Operation
H. Hand Cleaning of Production Parts

Waste Generation -

Location	Waste	EPA Hazardous Waste Number	DOT Number	Hazard Code
A.	Chromium	D007	UN1755	EP Toxicity
B. & C.	Toluene	F005	UN1294	Flammable Liquid
D.	Raw Paint	D008	NA9189	EP Toxicity
	Anolyte & Permeate	D008	NA9189	EP Toxicity
	Additive "Z" Cleaner	D008	NA9189	EP Toxicity
E.	Sodium Hydroxide (Kolene Salt)	D002	NA9188	Corrosive
F.	Raw Paint	D001	UN1263	Flammable Liquid
G.	Polyether Polyl	D003	NA9188	Reactive
	Toluene Diisocyanate	U223	NA2078	Poison B
	Methylene Chloride	F002 & F003	UN1593	Toxic
H.	1-1-1 Trichloroethane	F002	UN2831	Toxic

3. Treatment & Storage Facility -

The Treatment Facility is located in the southwest corner of the company property, approximately 800' south of the production facility. The Facility is used to house all treatment equipment and for all waste treatment requirements of this facility including all sanitary waste. The Facility treats two (2) hazardous wastes to render them non-hazardous.

A. Hexavalent Chromium is treated by reducing the hexavalent chromium to trivalent chromium. This is then further treated to remove the chromium from the liquid by processing it in a water purification system. The resulting sludge is now no longer toxic and is disposed of in a sanitary landfill.

B. Sodium hydroxide (Kolene salt) is the waste resulting from stripping paint from equipment used in the painting operation. It is a solid material with a pH of approximately 14. It is treated by dissolving this waste in water. The resulting decant is then used to adjust the pH in the water purification system. The remaining solids become a part of the Paint Booth waste

C. The anolyte and permeate wastes are generated in our Electro-Deposition paint system. This waste is pumped to the waste treatment plant by a pumping station and pipeline located in the Painting Department These wastes then are treated with sodium sulfide and polyelectrolite to precipitate the heavy metals, making them non-hazardous.

The paint wastes from our Electro-Deposition paint system are generated by spills of water-suspended paint from the 12,000 gallon paint tank. This paint tank has a containment around it to protect against uncontained spills. From the containment area the spill will run into a holding tank. The waste is then treated in small amounts with caustic soda to precipitate the suspended paint. The decant is then added to the anolyte and permeate for treatment at the waste treatment plant. The paint is a non-hazardous waste at that point and can be disposed of in an approved landfill.

The Additive "Z" cleaning solution is drumed after use in the Electro-Deposition filter and taken to the waste treatment for treatment.

D. Storage Facility (Hazardous Waste) - The drum storage and containment area is located 210' south of Building No. 44 and 50' south of ABS Plastic Storage silos. It consists of a concrete slab, 82' x 45', divided into five (5) curbed sections, pitched to a sump. Each sump is valved. Valves are kept closed except to drain rain water after test for contamination. A six foot high industrial fence surrounds the containment area. The gate is kept locked. All required signs are posted and the area is illuminated as required for hazardous waste storage areas.

The area is capable of storing 780 55-gallon drums. The materials stored are:

1) (Kolene Salt) Sodium Hydroxide Waste
2) Raw Paint Waste
3) Toluene Waste
4) 1-1-1 Trichloroethane Waste
5) Toluene Diisocyonate Waste
6) Polyether Polyol Waste
7) Methlene Chloride Waste

See Appendix B & C.

II. LIST OF EMERGENCY COORDINATORS

Primary Emergency Coordinators for:	Name	Phone Ext.	Residential Telephone No.
Fire, Spill or Leaks of Hazardous Materials	Robert Steiff Supt. Waste Treat.	2265	[redacted]
	Fritz Marz Chief, Fire Brigade	2190	[redacted]

Ex. 6 PII

Alternate Coordinators for Fires, Spills or Leaks of Hazardous Materials:

Name	Title	Shift	Phone Ext.	Residential Telephone No.
Clarence Reihmann	Ass't.Fire Chief	1	2118	[redacted]
Arnold Moessner	Ass't.Fire Chief	1	2112	
Don Mason	Ass't.Fire Chief	2	2511	
Roger Volz	Captain	2 Auto Call	45	[redacted]
Richard Vulysteke	Ass't.Fire Chief	3 Auto Call	21	[redacted]

Ex. 6 PII

1. Additional Emergency Notification:

	Ext.	Residential Telephone No.
Bart Schuchert, Ind. Engineer (Foam)	2223	[redacted]
Chester Gray, Safety Director	2127	
Dennis Meyer, Manager-Labor Relations	2126	
Dale Henry, Production Manager	2252	
John Wetz, Paint Superintendent	2297	

Ex. 6 PII

Above list is posted in the following areas:

Waste Treatment Bldg. Hazardous Waste Storage Area (By Phone)
Urethane Foam Production Area, Guard House (East)
Guard Procedure Manual, Safety Equipment House

2. Outside Contacts: The following agencies are to be contacted if the emergency requires outside help or the condition threatens human health or the environment outside the facility or necessitates the evacuation of the area.

	A. Local Agencies	Phone
	Fire Department	622-3333
	County Sheriff	642-5613
	Amana Medical Clinic	622-3231
	County Civil Defense	642-5613
B.	National Response Center	800-424-8802
C.	IDEQ Region 6, Washington, IA	319-653-2135
	DEQ Spill	515-281-8694
D.	Chemtrec Emergency Spills	800-424-9300

Information to be furnished is:

A. Name and telephone number of person reporting emergency.

B. Name and address of Facility.

C. Time and type of incident such as release, or fire, etc.

D. Extent of injuries, if any.

E. The possible hazard to human health or the environment outside of Facility.

F. Name of Hazardous Substance - Chemical Name _____.

G. Quantity spilled or involved in the emergency (fire or explosion) _____.

H. Control measures underway _____.

I. Nature of assistance required - fire fighting, traffic control, evacuation, medical assistance (State or local agencies must be advised as to the specific nature of assistance needed.) _____.

For Hazardous Substance Emergency Chart, see Appendix D.

For Contractor Clean-Up Transportation and Disposal, see Appendix E.

III. EMERGENCY EQUIPMENT

A. Fire Protection Equipment:

1. The in-plant areas are protected by overhead sprinklers plus 20-lb. A.B.C. Dry Chemical fire extinguishers and 1-1/2 hose lines delivering 35 - 50 GPM.

2. The hazardous waste storage area equipment consists of the following:

   6 - 20-lb. A.B.C. Dry Chemical extinguishers
   2 - fire hydrants located approximately 150' from the storage area. The hydrant house is supplied with approximately 500' of 2-1/2 fire hoses, fire nozzles, bar, wrenches, lantern, fire axe.
   4 - hose streams are available; each could supply 250 GPM

3. In addition to above equipment, there is a mobile fire unit containing 150-lb. Dry Chemical (ABC) extinguisher, and:

   2 - 2-1/2 gal. foam units
   4 - self-contained breathing apparatuses
   4 - 50' length of fire hose

B. Protective Clothing:

   4 - sets of chemical resistant gloves
   4 - sets of chemical resistant coat, pants & boots

C. Chemical Spill Clean-Up Materials:

   2 - shovels, brooms, mops and buckets
   3 - contractor's pumps located in Bldg. 51
   1 - air-operated pump located in Bldg. 54
   1 - eye and safety shower
   - approximately 600-lbs. Floor-Dri
     600-lbs. Hazorb absorbent material

D. Respiratory Protective Equipment:

   2 - 30-minute self-contained breathing apparatuses with extra air tanks.

All of the above are located at Safety Equipment House unless stated otherwise. For location of emergency equipment, see Appendix B.

LIST OF EQUIPMENT & CHEMICALS FOR SPILL CLEAN-UP

Storage Cabinet, East Wall of EPS Expansion Room:

1. Air Line Respirators - with full face piece, air hoses.
2. Throw-away overshoes, coveralls gloves.
3. Two (2) No. 12 scoop shovels.
4. Four (4) brooms.
5. Two (2) Plastic 5-gallon Buckets.
6. Two (2) 10-Quart Graduated Buckets.
7. One (1) Mop.
8. Two (2) Push Brooms.
9. Two (2) Long-Handled Scrapers.
10. Two (2) 4-inch Putty Knives.
11. Two (2) Squeegies.

Drums for Disposing of Clean-up Material:

1. Six (6) 17H & 17E drums. Top Shelf of Drum Storage Rack (next to the New Foam bulk storage); also E6800 plastic drums.

Chemical Storage Cabinet, East Wall of EPS Expansion Room:

1. Aqueons Ammonia. *
2. Tincture of Green Soap. *

Paint Mix Room, Top Shelf of Paint Storage Racks:

1. Isopropol Alcohol. *
2. Perchloro Ethylene. *

* The above chemicals are not pre-mixed.

Solution to use for neutralization of area after spill is cleaned up and to neutralize material from the clean-up:

Formula for 50-gallon batch -

1. 5% Aqueons Ammonia - 2.5 gallons.
2. 10% Isopropol Alcohol - 5 gallons.
3. 2% Tincture Green Soap - 1 gallon.
4. 83% Water - 41.5 gallons.

Premixed solutions of this chemical can be found in the following areas:

1. Old Foam Bulk Storage area.
   A. One (1) 50-gallon drum of mix solution.
   B. 165 pounds of Hazorb.
2. New Foam Bulk Storage area.
   A. Two (2) 50-gallon drums of mix solution.
   B. 165 pounds of Hazorb.
3. Under Stairs going to Old Foam Mezzanine.
   A. One (1) 50-gallon drum of mix solution.

IV. EMERGENCY RESPONSE ACTIVITIES

A. Fire/Explosion

1. Emergency notification, during facility occupancy. The fire brigade and emergency coordinators are notified as described in facility description under "In-Plant Communications Capability." When facility is unoccupied except for Security Guards, the local fire department and emergency coordinators will be summoned by telephone.

2. During a fire, the emergency coordinator will take all reasonable measures to insure that the fire or explosion does not spread to other areas of the plant. This is accomplished by removal of hazardous waste or other products that would cause the fire to spread or an explosion to occur. If removal or isolation is not possible he will use all other means at his disposal to prevent the spread of the fire or to contain it.

3. When the fire or explosion involves or has the potential to involve hazardous waste which because of the quantity, strength or toxicity, creates an immediate or potential danger to the public health or safety, the emergency coordinator must contact the following agencies to implement the evacuation plan.

   a) Iowa County Sheriff Department — 642-5613

   b) Iowa County Civil Defense Director — 642-5613

   c) Iowa Department of Environmental Quality, Region 6, Washington, IA — 653-2135
      DEQ Spill — (515)281-8694

   If the above agencies cannot be reached, the National Response Center must be notified; telephone 800-424-8802.

   The information furnished to above agencies when reporting is as follows:

   a) Name and telephone number of reporter.

   b) Amana Refrigeration, Inc., Amana, Iowa.

   c) Time and type of incident.

   d) Name and quantity of materials involved.

   e) Extent of injuries, if any.

   f) The possible hazards to human health or the environment outside the facility.

4. The emergency coordinator must provide for clean-up and storage of any waste spilled as a consequence of fire and any material contaminated as a result of clean-up activities.

   a) No waste that is incompatible with the released material can be treated, stored or disposed of until clean-up procedures are completed in the affected area.

   b) All emergency equipment listed in the contingency plan must be cleaned and ready for re-use before operations are resumed.

   c) Notification to local, state or federal emergency response agencies must be made after Section 4(a)(b) are complied with and before operations are resumed.

5. A written report on the incident must be submitted to the Regional Administrator within 15 days after the incident. This report must include:

   a) Name, address and telephone number of the owner or operator.

   b) Name, address and telephone number of the facility.

   c) Date, time and nature of incident.

   d) Name and quantity of materials involved.

   e) The extent of injuries, if any.

   f) An assessment of actual or potential hazards to human health or the environment.

   g) Estimated quantity and disposition of the recovered material that resulted from the incident.

B. Spill Response

The Spill Response Plan is implemented using the same procedure as the Fire/Explosion Plan, See IV-A.

The following personnel are Spill Control members:

Waste Treatment	Shift	Fire Brigade	Shift
Thomas Hoyer	1	Arnold Moessner	1
Frank Ollinger	1	Clarence Reihmann	1
		Doug Vranek	1
		Arnie Sandvick	1
		G. (Pete) Glosser	1
		Richard Brummel	1
		Don Mason	2
		R. Volz	2
		L. Steele	2
		S. Wilhelm	2
		Bud Vulysteke	3

Equipment available for spill control and clean-up, see Emergency Equipment III.

In addition to above, the following equipment is available:

1. Catepillar end loader
2. Industrial tractor with end loader & grader plate
3. 1 - gasoline-driven pump 600 GPM capacity
4. 2 - dump trucks
5. 3 - power buckies 12-ft. capacity

Additional equipment available from Iowa County Civil Defense. Phone 642-3151 for the following:

1. 2 - Scott air packs with extra tanks
2. 2 - Acid suits
3. 2 - Toxicity suits with gas masks (See Appendix J)

Amana Refrigeration, Inc. is capable of handling all spill clean-up except for liquids in large volumes. Should this size of a spill occur, a contractor equipped to pick up and haul to a disposal or storage site would be employed, such as:

Chemical Pumpers & Incinerators
P.O. Box 1798
Highland, IN 46322
Phone: (219) 924-2951

Mud River Trucking, Inc.
Midwest Regional Office
5329 Second Avenue
Des Moines, IA 50313
Phone: (515) 244-3014

V. EVACUATION PROCEDURE

For Facility Evacuation Procedures, see Appendix H, page 5.

For Facility Drawing and available means of egress, see Appendix G.

For Evacuation Alarm System, see Appendix H, page 2.

VI. COORDINATION WITH STATE AND LOCAL AGENCIES AS REQUIRED BY 40 C.F.R. 262.34 (A) (5)

1. Fire Departments - The Fire Department's responding to an emergency call is of a voluntary nature, consisting of four departments. The nearest to the facility is located approximately two city blocks from the facility; the farthest is four miles away. Since the Fire Departments consist of a voluntary group, many are regularly employed in the facility and are totally familiar with our hazardous wastes. However, yearly familiarizing tours are conducted for members of the four departments.

   When the facility is unoccupied (non-production hours) the Security Guards will by phone call 622-3333. This will summon all four departments to the emergency. The Security Guard will also call an emergency coordinator should it be determined that additional assistance is required. The procedure is outlined in Additional Emergency Notification, page 4. For Correspondence with Fire Department, see Appendix J.

2. Since Amana Refrigeration, Inc. is located in an unincorporated area the local law enforcement agency is the Iowa County Sheriff. For notification data, see Appendix J.

3. In lieu of a local hospital, the Amana Medical Clinic is used for all emergency medical assistance. For notification data, see Appendix J.

4. For a Private Contractor, see page 8.

5. D.E.Q. is the regulatory agency. Amana is served by Region 6, Washington, Iowa. For data supplied, see Appendix J.

6. Iowa County Civil Defense Director - was contacted to provide assistance, if needed.

APPENDIX A

FIRE AND SPILL
RESPONSE ACTIVITIES FOR HAZARDOUS WASTE

1. Toluene (Toluol) Flammable Liquid

   A. Fire - Use ABC Dry Chemical fire extinguisher or water spray. Use self-contained breathing apparatus and chemical resistent clothing.

   B. Spills - For large spills use an explosion-proof pump to pump liquid into 17 E. drums Then use Hazorb, not Floor-Dry, to absorb the rest of the liquid; using non-sparking tools put the mixture into E6800 plastic DOT-approved drums. Take the drums to the hazardous waste storage area until disposal can be arranged.

   Note: Liquid can be recycled. Mixture of Hazorb material and liquid must be disposed of by incinerating.

   Note: Shut off all spark-producing electrical equipment. Also keep out all lift trucks or other sources that produce sparks or flame.

2. Raw Paint Flammable Liquid

A. Fire - For Class IB flammable liquid, use CO_2, ABC dry chemical, or foam extinguisher for all fires. Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up or explosion when exposed to extreme heat.

B. Spills - Stop all sources of ignition in the area. Use Hazorb, not Floor-Dry, to absorb the liquid and non-sparking tool to put the mixture into E6800 plastic DOT-approved drums. Take drums to hazardous waste storage area for storage until disposal can be arranged.

3. Toluene Diisocyanate - Poison B (Foam A Side)

A. Fire - Class III, combustible material - Use ABC dry chemical fire extinguisher or water to extinguish fires.

Note: TDI will burn in the presence of an existing fire or high heat source and adequate oxygen.

B. Spills - Use respiratory protective equipment, protective clothing, footwear and gloves. All other persons should promptly leave the contaminated area.

Use the following procedures for spills:

- Ventilate the contaminated area. Open all doors and windows and start all available exhaust fans. (Note: To avoid inhalation of the vapors of either TDI or the decontaminants used, workers should wear appropriate respiratory protective devices; e.g., a self-contained breathing apparatus.) Start all available exhaust fans.
- Completely cover the leak or spill with an absorbent material such as Hazorb, not Floor-Dry. Use an amount greater than is estimated to be necessary to absorb the TDI.
- Carefully shovel the absorbent TDI mixture into an open top E6800 plastic DOT-approved drum; cover, but do not make pressure-tight. Remove drums to outside area away from combustible materials.

- Soak the mixture in the container with a solution of 77% water, 5% Ammonium Hydroxide, 2% tincture of green soap, 10% Isopropal Alcohol, and allow it to stand undisturbed for at least 24 hours. (WARNING: Considerable heat, which could cause ignition, will be generated when the aqueous ammonia solution is first applied. After standing 24 hours, however, the drum may be closed (though not pressure tight).
- Immediately after shoveling the absorbent-TDI mixture from the floor, complete the decontamination by mopping the floor with a solution of 77% Water, 5% Ammoniun Hydroxide, 2% tincture of green soap, 10% Isopropal Alcohol. Be sure the area is well ventilated both during and after clean-up.

Cold Weather Spills - During cold weather, spilled or leaked TDI may freeze. Under these conditions, the use of ammonia and water will merely coat the frozen material with an insoluble urea, stopping further reaction. It is essential, therefore, to use a solution, that will not only dissolve the frozen TDI, but will also form a liquid product during decontamination.

- Estimate the quantity spilled, and make up a mixture of approximately 50% isopropyl alcohol and 50% perchloroethylene

by volume, using the same volume of each solvent as the estimated volume of spilled TDI. (Note: To avoid inhalation of the vapors of either TDI or the decontaminants used, workers should wear appropriate respiratory protective devices; e.g., a self-contained breathing apparatus.

- Completely cover the spilled material with the alcohol-perchloroethylene solution.
- Allow the solution to remain in place for at least one hour.
- Cover the area with enough absorbent material such as Hazorb, not Floor-Dry, to soak up all the liquid. Shovel this material into open top E6800 plastic DOT-approved drums. Store drums in hazardous waste storage area until disposal can be arranged. (Note: Thoroughly air or ventilate the decontaminated area to remove all traces of vapor.)
- Note: The use of decontaminating solvents and other chemicals may introduce additional hazards of toxicity and flammability. These materials, therefore, must be used with care and in strict compliance with the manufacturer's recommendations and precautions.

Major Spills - In the event of a major spill, a State of Emergency should be assumed to exist in the affected area.

- All persons not properly equipped with protective clothing and appropriate respiratory devices should immediately leave the site of the spill and should remain upwind.
- Only experienced and properly equipped personnel should attempt to isolate or contain the spill. Block all drains to prevent TDI from entering drainage system.
- Keep all improperly equipped and unauthorized personnel away from the spill area.

Disposal - Fully neutralized TDI must be disposed of by incineration. Unneutralized TDI must also be disposed of by incineration.

4. Methylene Chloride

Fire - Will not burn

Spills - Wear solvent resistant gloves and protective clothing. Also, self-contained breathing equipment will be used on a significant spill.

Cover spill with floor-dry; then put into 17H drums and remove to a hazardous waste storage area for proper disposal.

5. Polyether Polyol (Foam "B" Side)

Fire - Class III B, Combustible Liquids - Use ABC dry chemical extinguishers or water to extinguish a fire.

Note: Polyether Polyol will burn in the presence of an existing fire or high heat source and adequate oxygen.

Spills - If spills of polyol should occur:

- Small spills on hard surfaces can be absorbed by use of Hazorb, or sawdust, not Floor-Dry, and then can be swept up for disposal with scrap polyether polyol.
- Moderate spills should be collected in small containers or buckets.
- When large spills occur, drains should be blocked to contain the material. The polyol can be pumped into containers such as 17E drums or tank trucks for further disposal.

Personnel engaged in clean-up should observe appropriate skin and eye protection practices.

6. 1-1-1 Trichloroethane

Fire - Not a fire hazard; when material is involved in a fire use a self-contained breathing apparatus.

Spills - Use self-contained breathing apparatus, chemical resistent protective clothing and gloves. Spills should be absorbed with floor-dry and put in 17H drums; then removed to the hazardous waste storage area for disposal. Chemical-resistent clothing and self-contained breathing apparatus should be worn.

7. Kolene Salt

Fire - Will not burn.

Spills - Use chemical resistent clothing, gloves, and eye protection. Shovel spilled material into a new drum and take it to the hazardous waste storage area. Waste will then be treated in the treatment facility to render it non-hazardous and disposed of in an approved landfill.

8. Chrome Rinse (Parcolene 85B-60A)

Fire - Will not burn.

Spills - Spill should be absorbed with floor-dry and put into 17H. drums which should be taken to the hazardous waste storage area. Waste will then be treated in the treatment facility to render it non-hazardous and disposed of in an approved landfill site. Chemical goggles, face shield and protective clothing should be used.

9. Electro-Deposition Paint System Wastes

1. Raw Paint:

Fire - Will not burn.

Spill - All spills will be treated in small quantities at the collection tank next to the paint tank. The pH of the liquid will then rise to 12 with caustic soda to precipitate the paint. The clear decant will then be mixed with anolyte/ permeate and pumped for treatment at the treatment facility to render it non-hazardous.

Chemical goggles, face shield and protective clothing should be used.

2. Anolyte/Permeate & Additive "Z" Cleaning Solution

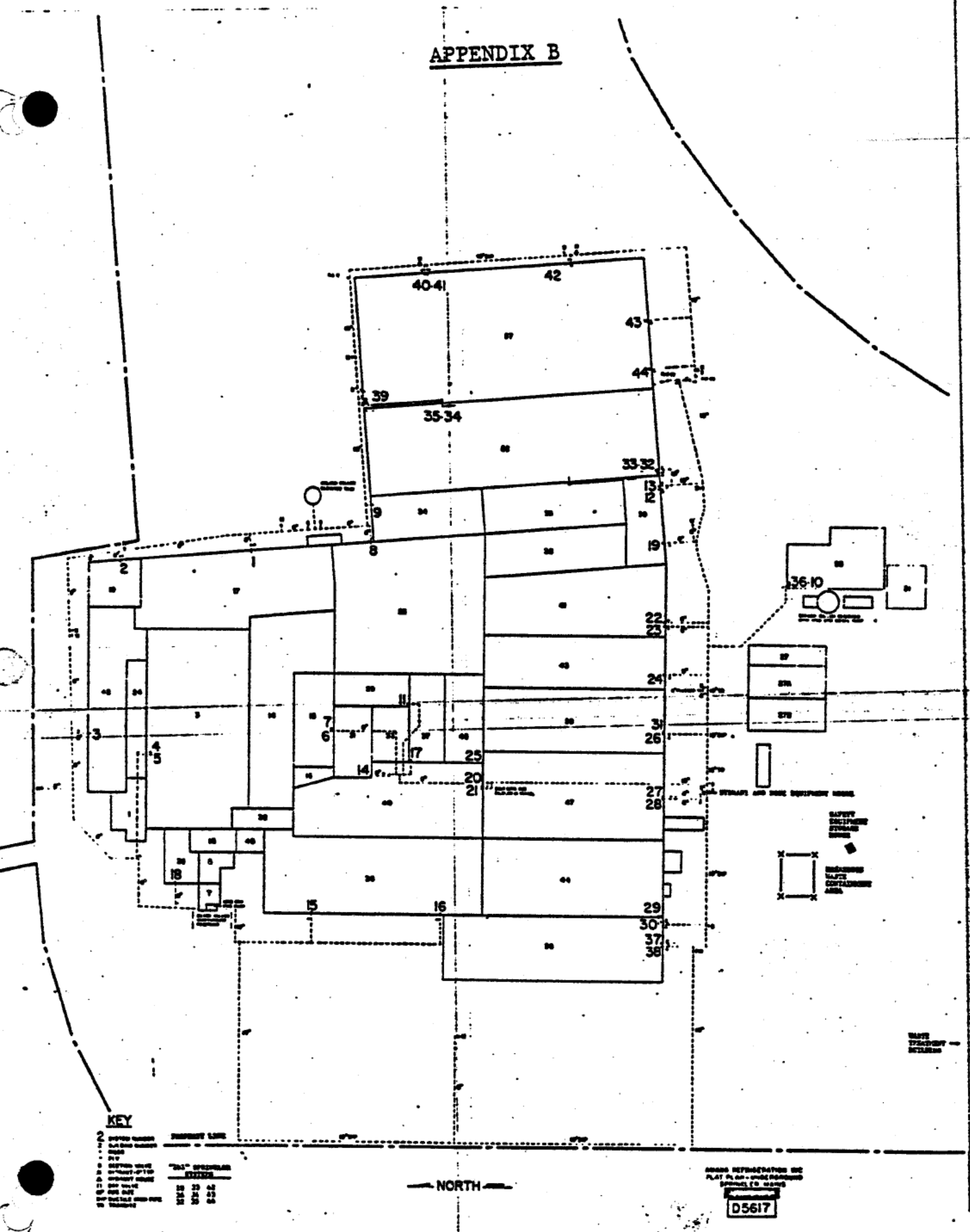
Fire - Will not burn.

Large Spills - The liquid should be pumped into 17E drums and taken to the treatment facility for treatment to render it non-hazardous.

Small Spills - On small spills, absorb the liquid with Floor-Dry and put into 17H drums. Take the drums to the treatment facility for treatment to render it non-hazardous.

On any spill, always use chemical goggles, face shield, and protective clothing.

APPENDIX B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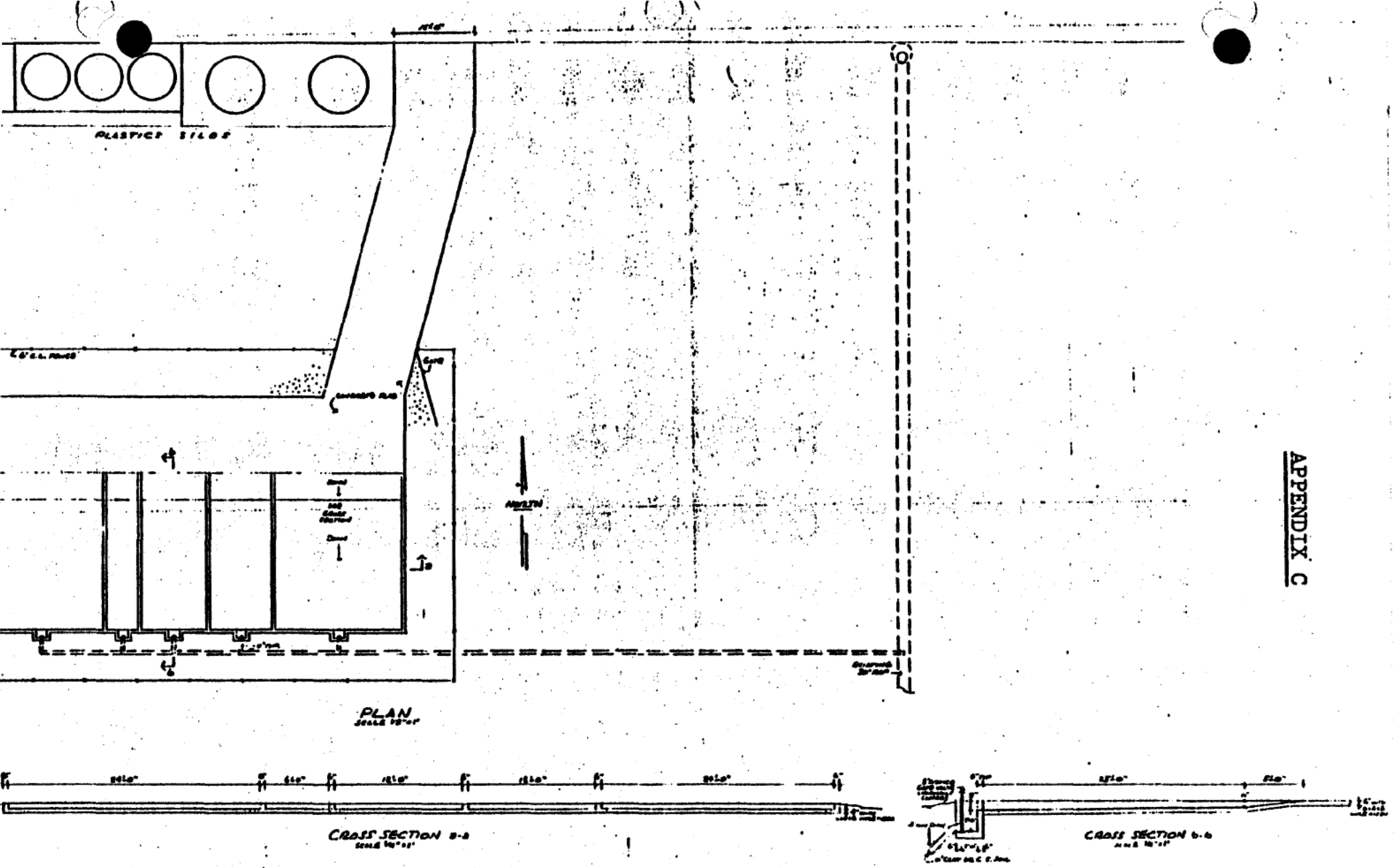


APPENDIX C

REVISION		AMANA REFRIGERATION, INC. AMANA, IOWA 52203	DRAWN BY	TITLE: HAZARDOUS WASTE STORAGE CONTAINMENT	SHEET NO.
			CHECKED BY DATE	PROJECT:	DWG NO. D-585
			SCALE:		

HAZARDOUS SUBSTANCES EMERGENCY ACTION CHART

APPENDIX D - I

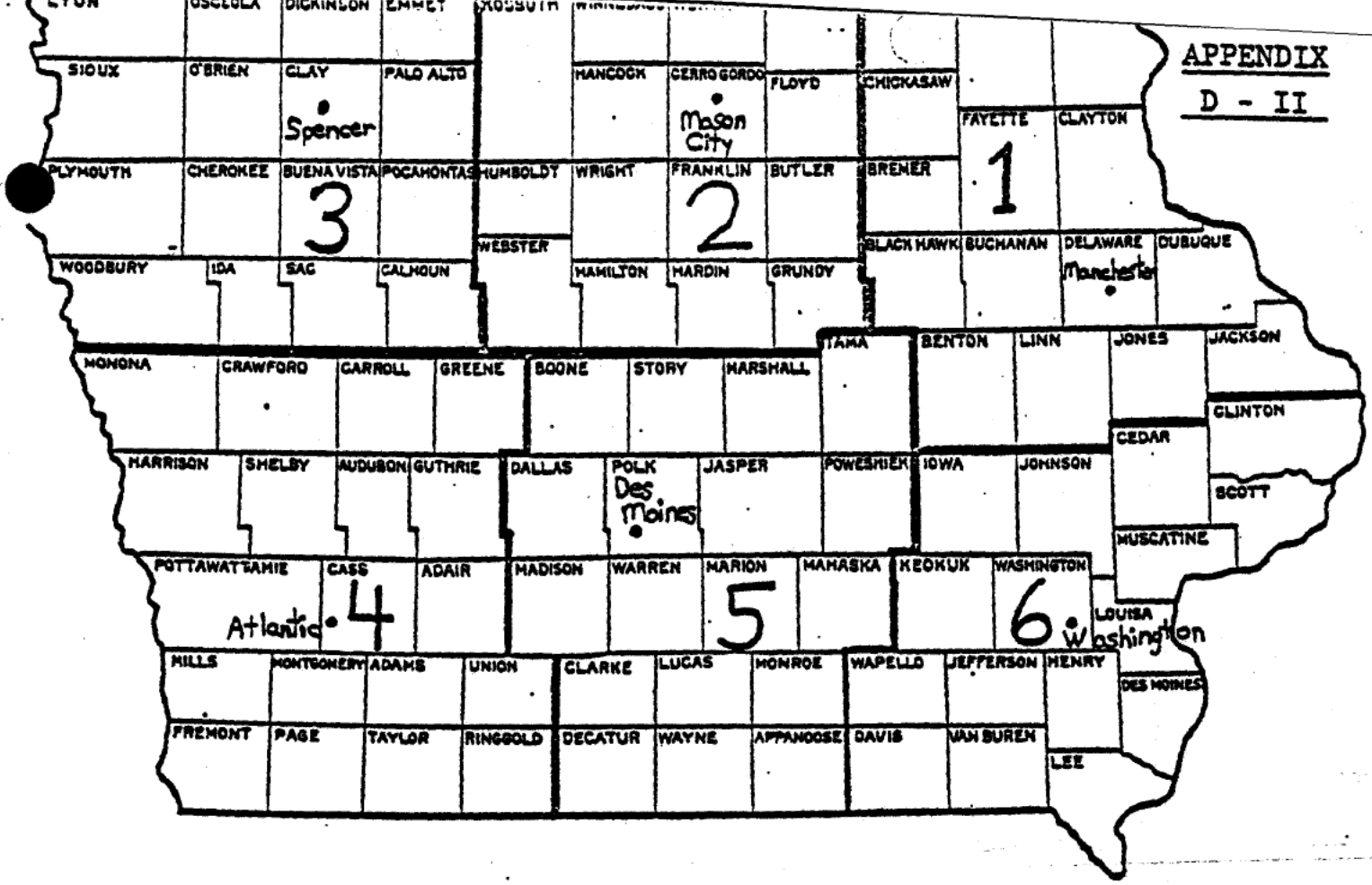
IN CASE OF TRANSPORTATION ACCIDENT INVOLVING THE FOLLOWING:		FOR INFORMATION CALL:	FOR ON-SITE ASSISTANCE CALL:	REQUIRED NOTIFICATION**
CHEMICALS (INCLUDING ALL PETROLEUM PRODUCTS)	RAIL	1 2 7 9 11 16	1 5 7 9 12	7
	TRUCK	2 7 9 11 16	5 7 9 12	7
	AIR	2 7 9 11 16	5 7 9 12	7
	WATER	2 7 9 11 16	5 7 9 12	7
COMPRESSED GASES	RAIL	1 2 7 9 11 16	1 5 7 9	7
	TRUCK	2 7 9 11 16	5 7 9	7
	WATER	2 7 9 11 16	5 7 9 12	7
CORROSIVE LIQUIDS	RAIL	1 2 7 11 16	1 5 7	7
	TRUCK	2 7 11 16	5 7	7
	WATER	2 7 11 16	5 7 12	7
EXPLOSIVES CLASS A & CLASS B	RAIL	1 7 9 11 16	1 5 7 8 9	7
	TRUCK	7 8 9 11 16	5 7 8 9	7
	WATER	7 9 11 16	5 7 8 9	7
FLAMMABLE AND COMBUSTIBLE LIQUIDS	RAIL	1 2 7 9 11 16	1 5 7 9	7
	TRUCK	2 7 9 11 16	5 7 9	7
	WATER	2 7 9 11 16	5 7 9 12	7
OXIDIZING MATERIALS	RAIL	2 7 11 16	1 5 7	7
	TRUCK	2 7 11 16	5 7	7
	WATER	2 7 11 16	5 7 12	7
AGRICULTURAL CHEMICALS: PESTICIDES, HERBICIDES, FERTILIZERS	RAIL	2 7 11 13 14 15 16	5 7 12 13 14 15	7
	TRUCK	2 7 11 13 14 15 16	5 7 12 13 14 15	7
	WATER	2 7 11 13 14 15 16	5 7 12 13 14 15	7
POISONS	RAIL	2 7 11 13 14 16	1 5 7	7
	TRUCK	2 7 11 13 14 16	5 7	7
	AIR	2 7 11 13 14 16	5 7	7
	WATER	2 7 11 13 14 16	5 7 12	7
RADIOACTIVE MATERIALS	RAIL	1 3 7 11 16	3 5 7	7
	TRUCK	3 7 11 16	3 5 7	7
	AIR	3 7 11 16	3 5 7	7
FLAMMABLE SOLIDS	RAIL	1 2 7 11 16	1 5 7	7
	TRUCK	2 7 11 16	5 7	7
	AIR	2 7 11 16	5 7	7
	WATER	2 7 11 16	5 7 12	7
RADIATION OR TOXIC MATERIAL EXPOSURE		7 16	3 5 7	7
CONTAMINATION OF WATERWAYS OR WATERSHED		7 10 12 16	5 7 10 12	7
UNIDENTIFIED HAZARDOUS SUBSTANCE		2 7 16	5 7	7
LIVESTOCK TOXICITY INCIDENTS		6 7 15 16	5 7 15	15

AGENCIES, FEDERAL, STATE, AND LOCAL, WHO CAN PROVIDE INFORMATION, ASSISTANCE, OR HAVE A NEED TO KNOW. THEY ARE KEYED AS FOLLOWS:

1.	Bureau of Explosives, Assoc. of American Railroads		202-293-4048
2.	CHEMTREC-National Agricultural Chemicals Assoc., Washington, D.C.		800-424-9300
3.	Department of Energy, Chicago Operations Office	(Duty hours)	312-972-4800
		(Off-duty hours)	312-972-5731
4.	Co./Mun. Disaster Services/Sheriff's Department	(24 hours)	
5.	Local Police or Fire Department	(24 hours)	
6.**	Iowa Office of Disaster Services (notify only if 7 not notified)	(24 hours)	*515-281-3231
7.	Iowa Department of Environmental Quality	(24 hours)	515-281-8694
8.	543rd Ordnance Detachment (EOD Control)	(24 hours)	314-363-6145
9.	State Fire Marshal, Department of Public Safety	(Duty hours)	515-281-5821
		(24 hours)	515-281-3561
10.	Conservation Commission	(Duty hours)	515-281-5384 -5385
		(Non-duty hours)	515-281-3231
11.	U. S. Department of Transportation		202-426-1830
12.	U. S. Environmental Protection Agency	(24 hours)	816-374-3778
13.	Poison Control Center, Iowa Methodist Hospital	(24 hours)	515-283-6212
14.	Poison Control Center, University of Iowa Hospitals & Clinics	(24 hours)	800-272-6477
15.	State Department of Agriculture	(Duty hours)	515-281-5321
		(Non-duty hours)	515-281-3231
16.	Motor Vehicles Div., State Dept. of Transportation	(Normal work day)	515-281-3047
		(24 hours)	515-281-5827

NOTES:
1. State agencies will notify their Federal counterparts.
2. Shippers and carriers must meet Federal notification requirements.
3. *Dept. of Public Safety Telecommunications systems can also be used, such as radio and the ICWA system.

Office of Disaster Services
(Revised 9/1/79)



REGION	WORK HOURS TELEPHONE	EMERGENCY AFTER HOURS COMMUNICATIONS
1-MANCHESTER	319/927-2640	319/927-3355 MANCHESTER POLICE
2-MASON CITY	515/424-4073	515/421-3000 CERRO GORDO CO. SHERIFF
3-SPENCER	712/262-4177	712/262-3221 CLAY CO. SHERIFF
4-ATLANTIC	712/243-1934	712/243-3512 ATLANTIC POLICE
5-DES MOINES	515/281-3622	515/281-8694 IOWA PUBLIC SAFETY -- PAGER 195
6-WASHINGTON	319/653-2135	319/653-2107 WASHINGTON CO. PUBLIC SAFETY
CENTRAL OFFICE	515/281-8694	515/281-8694 PAGER 185

COUNTIES BY REGION

(1)	Adair	4	(25)	Dallas	5	(47)	Ida	3	(71)	O'Brien	3
(2)	Adams	4	(26)	Davis	6	(48)	Iowa	6	(72)	Osceola	3
(3)	Alamakee	1	(27)	Decatur	5						
(4)	Appanoose	5	(28)	Delaware	1	(49)	Jackson	1	(73)	Page	4
(5)	Audubon	4	(29)	Des Moines	6	(50)	Jasper	5	(74)	Palo Alto	3
			(30)	Dickinson	3	(51)	Jefferson	6	(75)	Plymouth	3
(6)	Benton	1	(31)	Dubuque	1	(52)	Johnson	6	(76)	Pocahontas	3
(7)	Black Hawk	1				(53)	Jones	1	(77)	Polk	5
(8)	Boone	5	(32)	Emmet	3				(78)	Pottawattamie	4
(9)	Bremer	1				(54)	Keokuk	6	(79)	Poweshiek	5
(10)	Buchanan	1	(33)	Fayette	1	(55)	Kossuth	2			
(11)	Buena Vista	3	(34)	Floyd	2				(80)	Ringgold	4
(12)	Butler	2	(35)	Franklin	2	(56)	Lee	6			
			(36)	Fremont	4	(57)	Linn	1	(81)	Sac	3
(13)	Calhoun	3				(58)	Louisa	6	(82)	Scott	6
(14)	Carroll	4	(37)	Greene	4	(59)	Lucas	5	(83)	Shelby	4
(15)	Cass	4	(38)	Grundy	2	(60)	Lyon	3	(84)	Sioux	3
(16)	Cedar	6	(39)	Guthrie	4				(85)	Story	5
(17)	Cerro Gordo	2				(61)	Madison	5			
(18)	Cherokee	3	(40)	Hamilton	2	(62)	Mahaska	5	(86)	Tama	5
(19)	Chickasaw	1	(41)	Hancock	2	(63)	Marion	5	(87)	Taylor	4
(20)	Clarke	5	(42)	Hardin	2	(64)	Marshall	5			
(21)	Clay	3	(43)	Harrison	4	(65)	Mills	4	(88)	Union	4
(22)	Clayton	1	(44)	Henry	6	(66)	Mitchell	2			
(23)	Clinton	6	(45)	Howard	1	(67)	Monona	4	(89)	Van Buren	6
(24)	Crawford	4	(46)	Humboldt	2	(68)	Monroe	5			
						(69)	Montgomery	4	(90)	Wapello	6
						(70)	Muscatine	6	(91)	Warren	5
									(92)	Washington	6
									(93)	Wayne	5
									(94)	Webster	2
									(95)	Winnebago	2
									(96)	Winneshiek	1
									(97)	Woodbury	3
									(98)	Worth	2
									(99)	Wright	2

COMMERCIAL PUMPING and INCINERATION
OF ILLIANA

SUBSIDIARY OF A-1 DISPOSAL CORP.

Mailing Address:
P.O. Box 1798
Highland, IN 46322

Telephone: 219-924-2951
Chicago: 312-768-7570

Shipping Address:
9948 Express Dr.
Highland, IN 46322

APPENDIX E - I

September 4, 1981

Amana Refrigerator
Amana, Iowa 52307

Dear Mr. Steiff:

Thank you for the opportunity to describe C.P.I.'s services and capabilities. C.P.I., a subsidiary of A-1 Disposal Corp., Plainwell, MI., has been in industrial waste hauling since 1972 and has established a solid reputation of integrity. We have such current customers as: Dow, General Motors, Ford, Amoco, Conoco, Mobil, Marathon, Phillips, General Electric, U.S. Coast Guard, U.S. Enviromental Protection Agency, Michigan Department of Natural Resources, Inland Steel, Hammond Lead, Brunswick and Conrail.

In addition to having interstate transportation authority for hazardous waste materials, we provide emergency spill response anywhere, seven days a week/ twenty-four hours a day. Our spill equipment inventory includes vacuum trucks and tankers, semi-tractors and trailers, boats and bobcats, and 2,500 feet of oil boom.

At our Plainwell site, we have a full service chemical laboratory and high temperature incineration. Our technical staff includes a chemical engineer, chemists, toxicologists, pharmacists, biologist, flammable materials expert and specialists in hazardous waste management. Our transportation system and other chemical handling programs are linked to our "Systems 34" IBM computer.

Our personnel are trained, experienced, and equipped to safely handle spillages and clean ups of all types of hazardous materials. A-1 Disposal was the prime contractor to cost effectively and safely complete the three largest chemical clean ups in the State of Michigan to date. Also, we have extensive experience in tank and lagoon cleaning, monitoring wells and recovery wells, soil boring and split spoon sampling, cyanide and chrome treatment, and handling and disposing of PCB liquids, solids, transformers, and capacitors.

C.P.I.'s permit and licenses are:

United States Environmental Protection Agency INT000646919
Michigan Department of Natural Resources Agency 197
Interstate Commerce Commission MC 148355
State licenses in: Michigan, Indiana, Illinois, Missouri, Minnesota, New York and Wisconsin.

Thank you for the time and considerate attention you have given us. We are looking forward to being of service to you. If you have any questions, please do not hesitate to contact us.

Sincerely,

Commercial Pumping & Incineration

Henry C. Mendoza /akd

Henry C. Mendoza
V.P. Operations

HCM/akd

SERVICE AREA:
Midwestern and Southern Regions — United States

LICENSED:
Michigan, Illinois and Indiana

I.C.C. PERMIT NO.:
MC-148355

AVAILABLE SERVICES:
Solid and Liquid Waste Hauling
Vacuum Truck and Tanker Services
Chemical/Hazardous Material Clean-Up
Surface/Subsurface Spill Clean-Up
Soil Borings
Hydrogeological Surveys
Chemical Laboratory Services
Tank and Lagoon Cleaning

SUBSIDIARY OF A-1 DISPOSAL CORP.

COMMERCIAL PUMPING and INCINERATION
OF ILLIANA

Mailing Address:
P.O. Box 1798
Highland, IN 46322

Telephone: 219-924-2951
Chicago: 312-768-7570

Shipping Address:
9948 Express Dr.
Highland, IN 46322

- R E F E R E N C E S -

COSDEN OIL & CHEMICAL CO.	- Gerald Hardin	312/862-6140
PICKER DUNLEE CORPORATION	- Cynthia Paul	312/547-9535
LAGRANGE LABORATORIES	- Laurel Anderson	312/764-6700
UNIROYAL, INC.	- Richard Carpenter	219/255-2181
ENERGY COOPERATIVE, INC.:		
C.F. INDUSTRIES	- Frank Jorgeson	219/397-4320
GENERAL MOTORS CORPORATION:		
A.C. SPARKPLUG DIVISION	- Gordon L. Schultz	313/766-2141
OLDSMOBILE DIVISION	- Doug Sturdivant	517/377-5160
FISHER BODY - KALAMAZOO	- Barry Boaz	616/385-0341
GENERAL ELECTRIC COMPANY	- Al Schlichter	312/299-2028
BRUNSWICK CORPORATION	- Bret Madsen	616/726-4761
AMOCO OIL COMPANY	- L. D. Otto	313/275-5500
GREENVILLE PRODUCTS COMPANY	- Dan Schulz	616/754-7131
MENASHA CORPORATION	- Les Phillips	616/692-6141
GENERAL FOODS CORPORATION B & B FOODS DIVISION	- James M. Giriffin	616/966-1174
DEPT. OF NATURAL RESOURCES	- Jack Bails	517/373-3503
ENSCO	- Charles Robertson Gene Parkinson	501/863-7173

APPENDIX E -II

Mud River Trucking Inc.

Hazardous Waste Specialists

APR 30 1981

HOWARD R. GREEN CO.
Consulting Engineers

Corporate Office
Post Office Box 9095
Huntington, West Virginia 25704
Monte Gorham
304/429-6729

Midwest Regional Office
5329 Second Avenue
Des Moines, Iowa 50313
S. R. Genovese
515/244-3014

Attention-Lab Technicians and Consultants

We realize that from time to time, your company may have requests from your customers concerning the transportation and disposition of their hazardous waste. We would like to introduce our company to you and to be of service to your customers.

Mud River Trucking Inc. offers full service clean-up and transportation of hazardous waste materials to federally approved landfills. Our tractors and trailers haul only hazardous waste, in either bulk or drums, meeting or exceeding all federal and state laws governing the transportation of such products. We are classified a common carrier of a regulated product. Please note these services also apply to the transportation and disposition of PCB's.

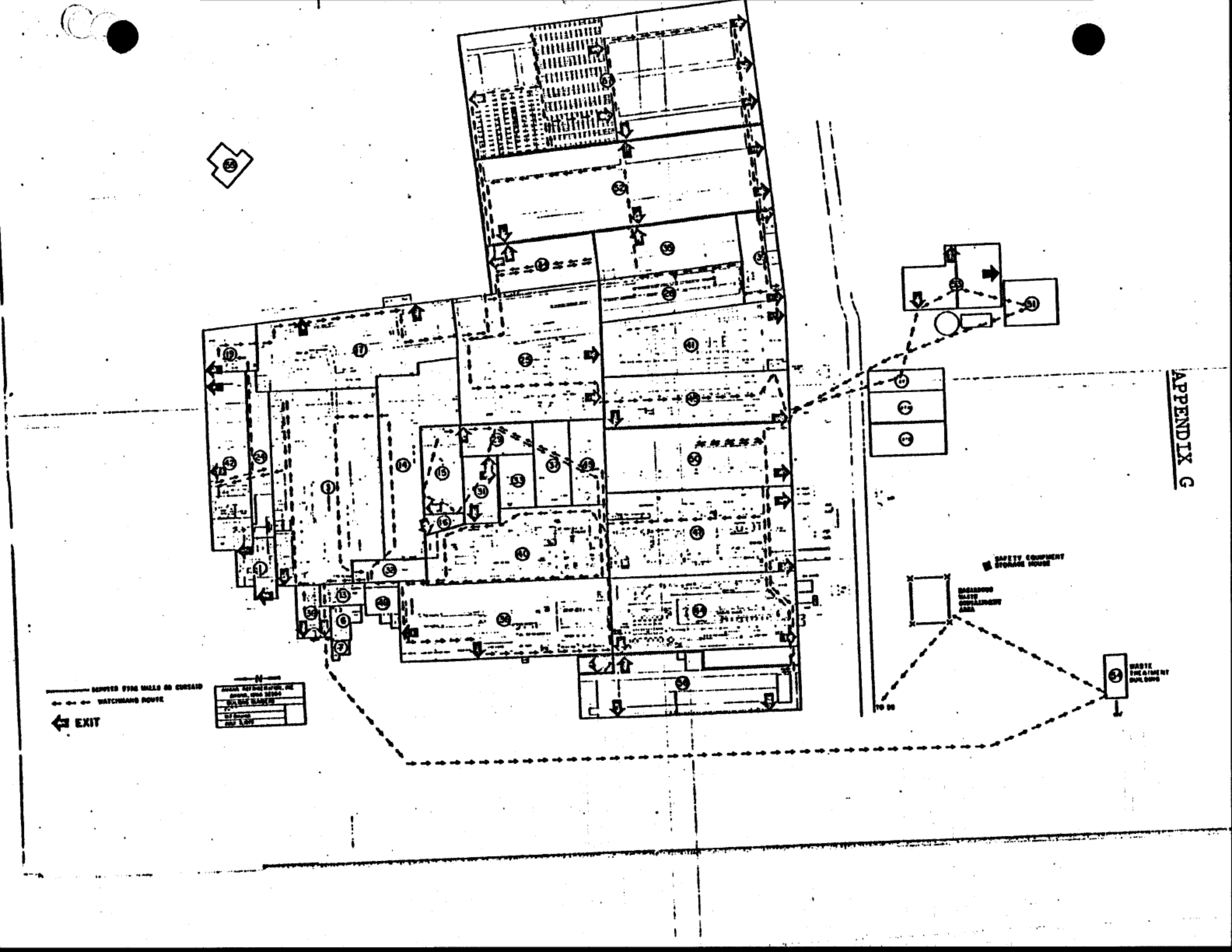
Also available are special services and equipment such as roll-off trailers, dozers, cranes, etc.

For more information please call the above midwest number.

Sincerely yours,

Bob Nelson

Steve Genovese/Bob Nelson
Midwest Representatives


APPENDIX G
EXIT
WATCHMANS ROUTE
SAFETY EQUIPMENT STORAGE HOUSE
WASTE TREATMENT BUILDING

AMANA REFRIGERATION, INC.

AMANA, IOWA

TO All Emergency Plan Recipients **DATE** January 26, 1983

FROM Chester Gray **SUBJECT** Plan Changes

There have been changes made on page (2); (3); & (7). Please destroy your green colored copy and replace it with this salmon colored copy.

Please review with your employees the items of this plan which affect them.

CG/bz

cc: File

1-22-81
Revised 9-29-81
Revised 11-25-81
Revised 2-3-83

AMANA REFRIGERATION, INC.

EMERGENCY PLANS

This plan has been written to provide Emergency Instructions and information to all levels of Management in the event of an emergency such as hazardous material spills, fire, etc. It is important that any changes in exits, etc. be updated periodically. Any revision of such exits by the Plant Engineering Department shall be communicated in writing to the Occupational Safety and Health Director.

All Supervisors are to review Emergency Procedures and explain the information to their employees. Fire fighting equipment, exit aisles, etc. must be kept clear and accessible at all times.

Some years ago an Emergency Communications System was installed in the factory and offices to provide a means of informing affected employees of the Emergency and to instruct them when needed.

The location of the Communications System is in the Personnel Office. Speakers for the system are located throughout the facility and updating of this system when building additions are made or remodeling is done is the responsibility of the Plant Engineer. Refer failures in the System to the Plant Engineer also and he will contact the proper people for repair.

Testing is done on a weekly basis by the Security Department and a sample of the test procedure and report is attached. Any problems found during this test are reported to the Safety Director who will contact the Plant Engineer for repair.

FIRE AND OTHER EMERGENCY USE

If you have such an emergency situation in your department, go to the nearest phone and call 2400. Explain the type of situation you have whether fire, hazardous material spill, etc. and tell the person answering the phone the location of the problem. If reporting a spill or fire ask that the Fire Brigade be informed. Speak clearly and be sure your message has been received before hanging up. On Third Shift dial 2800 and give your message without waiting for someone to answer. Your message will automatically go out over the entire system. At this point the Emergency Coordinators are in charge and will give any needed evacuation order by voice communication or by calling the Personnel Department for broadcast over the Emergency Communications System.

HAZARDOUS MATERIAL LEAK OR SPILL

Should you have a leak or spill of hazardous material, call one of the following people:

Prime Emergency Coordinators

Robert Steif - Ext. 2265 [redacted] 1st Shift
Fritz Marz, Fire Chief - Ext. 2190 [redacted]) 1st Shift

Ex. 6 PII

Alternate Coordinators:

Clarence Reihmann, Asst. Chief - Ext. 2118 [redacted]) 1st Shift
Arnold Moessner, Asst. Chief - Ext. 2112 [redacted]) 1st Shift
Don Mason, Asst. Chief - Ext. 2511 [redacted] 2nd Shift
Richard Vulysteke, Asst. Chief [redacted] 3rd Shift, Auto Call 6-21
Roger Volz, Captain [redacted] 2nd Shift

Ex. 6 PII

If you have determined that evacuation must take place before arrival of the above personnel, route your employees to the nearest exit and inform Personnel Department of your action. At all times remain in contact with your upper management people.

When the Coordinators arrive on the scene of hazardous material spills or a fire, then they are in charge of the effort involved.

EMERGENCY SIGNALS

The Emergency Communication Signals are as follows:

a. Steady Tone - Means an Emergency Message will follow.

b. Pulsing Tone - Means a Message for the Fire Brigade will follow.

c. Slow Warble - Means "Take Cover."

d. Siren - Means Evacuate the building or area covered by the Message.

In all cases the siganl will be followed by a voice communication to give specific details as time permits.

FIRE EMERGENCY

Supervisors are responsible to instruct and periodically review emergency procedures with their employees. This can be done at any time but must include new employees as they enter the department and also transfers. On long-time department employees, it shall be done on an annual basis or oftener and shall include:

1. Location, operation, and use of fire extinguishers.

2. Location and route to Emergency exits.

3. Emergency Shutdown of Machinery.

4. Notification of Management in case of fire, hazardous material spill or other emergency situation.

5. Should include encouraging employees to call for help even on a small fire.

FIRE BRIGADE

The Fire Brigade at Amana Refrigeration, Inc., Amana, Iowa shall consist of a minimum of 50 members and shall be distributed as follows:

Fire Chief	- 1
Assistant Chief	- 4
Captains	- 6
Firemen	- 30(minimum

Shift distribution shall be as follows:

	1st Shift	2nd Shift	3rd Shift
Fire Chief	1	0	0
Assistant Chiefs	2	1	1
Captains	5	1	0
Firemen (Minimum)	20 (Minimum	6	5

The Fire Brigade is to be called to all fires in the facility. They are trained to fight all types of fires which may occur.

PHYSICALS

All members of the Fire Brigade shall have an annual physical by the Company Doctor to assure their physical capability of performing the duties assigned to them as a member of the Fire Brigade. No person shall be permitted to be a member of the Fire Brigade who has known heart disease, epilepsy, or emphysema unless the Company Doctor certified that they are fit to participate in these activities.

TRAINING

The Fire Chief is to make sure that all members of the Fire Brigade are properly trained commensurate with those duties they are expected to perform. Such training shall be provided to the Fire Brigade members before they perform Fire Brigade emergency activities. The quality of the training and education of the Fire Brigade members shall be similar to that of the Iowa State Fire Extension Service.

The Fire Chief shall inform all Fire Brigade Members about special hazards such as storage and use of flammable liquids and gases, hazardous chemicals, and water reactive substances to which they may be exposed during fire or other emergencies. Any changes that occur in relation to the special hazards shall be communicated to the Fire Brigade Members.

Written procedures that describe the actions to be taken in situations involving the special hazards shall be included in these training sessions.

MAINTENANCE

The Maintenance Department shall maintain and inspect, at least annually, all fire fighting equipment. Portable fire extinguishers shall be inspected more frequently. Equipment which is found to be damaged or unserviceable shall be replaced immediately. Portable fire extingusihers shall be placed, used, maintained, and tested according to 1910.157 of the Occupational Safety and Health Rules.

Standpipe and hose systems shall be installed, maintained, inspected, and tested according to 1910.158 of the Occupational Safety and Health Rules.

Automatic Sprinkler Systems shall be installed, maintained, inspected, and tested according to 1910.159 of the Occupational Safety and Health Rules.

Fixed extinguishing systems shall be designed, installed, maintained, inspected, and tested according to 1910.160 of the Occupational Safety and Health Rules.

Fixed dry chemical extingishing systems shall be designed, installed, maintained, inspected, and tested according to 1910.161 of the Occupational Safety and Health Rules.

Any fire detection systems shall be constructed and installed to comply with the requirements of 1910.164 of the Occupational Safety and Health Rules.

The employee alarm system shall be maintained so that all employees may be evacuated from their work station as needed. Emergency telephone numbers shall be posted at or near all factory telephones and employees in each department shall be instructed as to their use by their supervisor.

All devices, components, combination of devices or systems constructed and installed to comply with these rules shall be restored to normal operating condition as promptly as possible after each test or use.

PROTECTIVE CLOTHING

Fire Brigade and Spill Control Members shall be provided any necessary personal protective clothing and equipment for use during plant fires at no cost to the Brigade members. Any clothing provided must meet the requirements of 1910.155 (e) of the Occupational Safety and Health Rules.

EMERGENCY EVACUATION

Supervisors are responsible to instruct and periodically review emergency evacuation procedures with their employees. This can be done at any time but shall include all employees including transfers and new hires when they enter the department. On long-time employees it shall be done at least annually and shall include the following:

1. General Foremen, Foremen, and Group Leaders shall know the route to the location of at least two separate and remote exits from the building.

2. All department personnel are to be instructed in the route to and location of exits.

3. New hires and transfers are to be instructed upon entering the department.

4. Notification of Management of such evacuation.

TO CALL FIRE BRIGADE

Use the Emergency Communication System located in the Personnel Office.

1. Push black "Office" and "All Factory" toggles to "Up" position on console.

2. Push red "Emergency Message" toggle to "Down" position. Hold this toggle at down position for at least five (5) seconds. Return to neutral position.

3. Using the desk microphone, press the black lever in the base down and give message.

   a. Speak calmly and clearly.

   b. Tell Fire Brigade the location of the emergency. Repeat message several times. Be sure you have proper location for fire or other emergency. (Fire Brigade is to be called to hazardous material spills as well as to fires.)

4. Return all switches to neutral position.

KIND OF FIRE

DECIDE THE CLASS OF FIRE YOU ARE FIGHTING. . .

. . .THEN CHECK THE COLUMNS TO THE RIGHT OF THAT CLASS

APPROVED TYPE OF EXTINGUISHER

MATCH UP PROPER EXTINGUISHER WITH CLASS OF FIRE SHOWN AT LEFT

	FOAM Solution of Aluminum Sulphate and Bicarbonate of Soda	CARBON DIOXIDE Carbon Dioxide Gas Under Pressure	SODA ACID Bicarbonate of Soda Solution and Sulphuric Acid	PUMP TANK Plain Water	GAS CARTRIDGE Water Expelled by Carbon Dioxide Gas	MULTI-PURPOSE DRY CHEMICAL	ORDINARY DRY CHEMICAL
CLASS A FIRES USE THESE EXTINGUISHERS ORDINARY COMBUSTIBLES • WOOD • PAPER • CLOTH ETC.	A B	X	A	A	A	A B C	X
CLASS B FIRES USE THESE EXTINGUISHERS FLAMMABLE LIQUIDS, GREASE • GASOLINE • PAINTS • OILS, ETC.	A B	B C	X	X	X	A B C	B C
CLASS C FIRES USE THESE EXTINGUISHERS ELECTRICAL EQUIPMENT • MOTORS • SWITCHES ETC.	X	B C	X	X	X	A B C	B C

HOW TO OPERATE

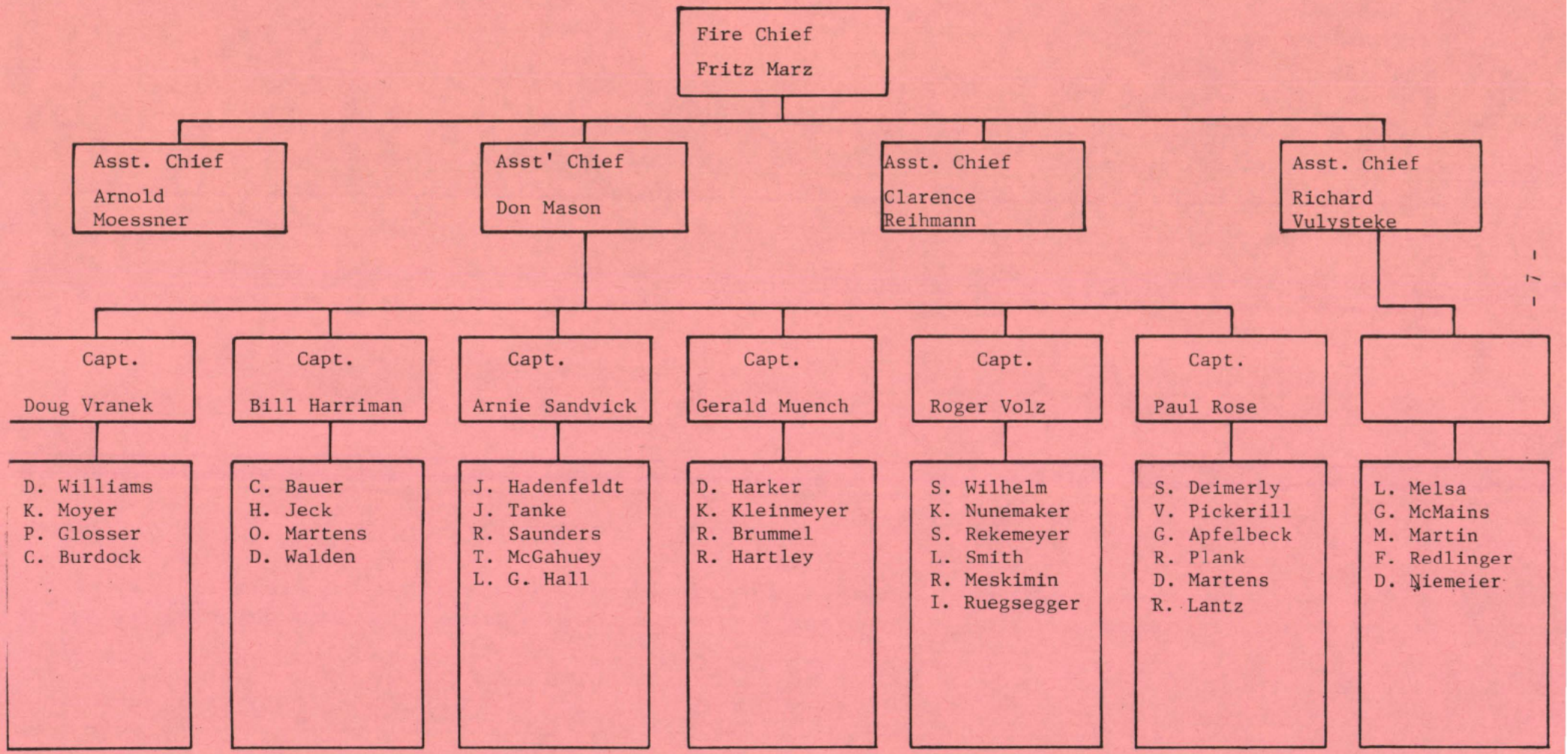
FOAM: Don't Play Stream into the Burning Liquid. Allow Foam to Fall Lightly on Fire

CARBON DIOXIDE: Direct Discharge as Close to Fire as Possible. First at Edge of Flames and Gradually Forward and Upward

SODA ACID, GAS CARTRIDGE: Direct Stream at Base of Flame

PUMP TANK: Place Foot on Footrest and Direct Stream at Base of Flames

DRY CHEMICAL: Direct at the Base of the Flames. In the Case of Class A Fires, Follow Up by Directing the Dry Chemicals at Remaining Material That is Burning


Fire Chief
Fritz Marz
Asst. Chief
Arnold Moessner
Asst' Chief
Don Mason
Asst. Chief
Clarence Reihmann
Asst. Chief
Richard Vulysteke
Capt.
Doug Vranek
Capt.
Bill Harriman
Capt.
Arnie Sandvick
Capt.
Gerald Muench
Capt.
Roger Volz
Capt.
Paul Rose
D. Williams
K. Moyer
P. Glosser
C. Burdock
C. Bauer
H. Jeck
O. Martens
D. Walden
J. Hadenfeldt
J. Tanke
R. Saunders
T. McGahuey
L. G. Hall
D. Harker
K. Kleinmeyer
R. Brummel
R. Hartley
S. Wilhelm
K. Nunemaker
S. Rekemeyer
L. Smith
R. Meskimin
I. Ruegsegger
S. Deimerly
V. Pickerill
G. Apfelbeck
R. Plank
D. Martens
R. Lantz
L. Melsa
G. McMains
M. Martin
F. Redlinger
D. Niemeier

WEEKLY EMERGENCY COMMUNICATIONS SYSTEM TEST REPORT

TO TEST SYSTEM:

1. Lock the Communications System microphone in the "on" position.

2. Place the microphone near the speaker of the AM-FM radio.

3. Turn the volume of the radio up to a level at which the program may be heard during the Guard round.

4. Turn on the "Office" and "Factory" systems on the console.

5. Check the speakers during the Guard round.

6. Complete the following:

TIME:_____ DATE:_____

COMMENTS:_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

GUARD

7. Forward this report to the Safety Department.

EMERGENCY PHONE NUMBERS

Iowa County Ambulance	642-3815
Iowa County Sheriff	642-5613
Air Care(Helicopter)	
(University Of Iowa Hospital)	1-800-272-6440
Mercy Hospital (Cedar Rapids)	
Ambulance	366-7654
Helicopter	366-7654
Dr. Caraway-Office	622-3231
-Home	[redacted]
	Ex. 6 PII
Dr. Howell-Home Or Office	[redacted]
Iowa Highway Patrol	396-1944
If No Answer	396-4414
Iowa County Civil Defense	642-3151
Weather	393-0500
(November Through March)	396-3330

APPENDIX I

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN

Amana Refrigeration, Inc.
Amana, Iowa 52204
319-622-5511

CONTACT

Robert Steiff

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA AND I AM COMPETENT TO PREPARE THIS DOCUMENT.

Gene W Fitt DATE 12-19-80

GENE R. FITCH, P.E. REG. NO. 6367

1. Name and location of facility.
   A. Amana Refriperation, Inc., Amana, IA 52204
   B. 319-622-5511
   C. Normal hours of operation, 7 a.m. - 12:00 p.m., Monday - Friday.
   D.
      Robert Steiff, Coordinator

2. Description of facility. Consists of a plant engaged in the production of refrigerators, freezers, microwave ovens. Oil storage tank area follows:
   A. 2 tanks of 30,000 gal. cap. - underground. Location is directly adjacent to the south wall of boiler room. All are used for No. 2 fuel oil.
   B. 2 - 25,000 gal. tanks - underground. The location is west of the NW corner of Building 36. Used for No. 2 fuel oil.
   C. 1 - 1000 gal. tank - above ground. A former L.P.G. tank east of industrial waste treatment building No. 54. Tank contains diesel fuel.
   D. 1 - 9000 gal. tank - verticle above ground. Located east of steel unloading dock. Tank contains compressor oil.

   The accompanying site plan shows plant layout and storage tanks. Also are specs. on all containment areas.

3. Spill prevention and containment areas.
   A. Containment area drain valves will be closed at all times where tanks are above ground.
   B. Containment drain valve will be closed during filling of underground tanks.
   C. All main unloading valves will be locked shut when unattended.
   D. Venting capacity is suitable for the filling rate.
   E. Each containment area will hold the single largest above ground vessel in the area.
   F. For underground storage tanks, the containment area has a capacity greater than the tanker delivering the fuel
   G. All on site construction equipment, pump, etc. will be used to control any spills.

4. Personnel: All personnel have been instructed in the following spill prevention and counter measure plans.
   A. All tanks are to be checked for capacity prior to being filled.
      1. Boiler personnel will be in charge of all tanks located by the boiler room.
      2. Waste Treatment personnel will inspect the diesel tank by the treatment building.
      3. Refrigeration technician on duty will be in charge with inspection of the compressor oil containment area.
      4. All responsible personnel will notify the following people in case of a spill.
         a. Robert Steiff - Business - 2265
         [redacted] Ex. 6 PII

5. Housekeeping procedures including clean-up of small spills, are to be observed to prevent contamination of drainage water ways.

6. Intermediate spills will be pumped into drums and sent for disposal.
7. All large volumn spills will be pumped into an alternate tank truck. The proper disposal of the oil will be determined after clean-up.
8. All oil that remains on the concrete will be absorbed by sawdust or floor dry, then put into 17H drums for disposal.
9. In the areas of above ground storage tanks, the containment area discharge valves will normally be in the closed position. Impounded surface water will be checked for contamination prior to release. Following release, the valve will again be placed in the normal or closed position. Adequate records of each discharge will be maintained.

5. Notification
Notification of any discharges which occur will be made to the appropriate agencies in accordance with 33 CFR, Part 153, Subpart B. Records of discharges will be maintained.

6. Inspections
Periodic inspections of the storage areas will be made to identify leaks or potential for spills. When problems are observed, corrective action will be taken. A record of these inspections and any corrective action taken will be maintained.

NOTE: AS oil is not a hazardous waste as of 2/25/81. Step No. 8 of the clean-up counter measure will be changed to: Dispose all sawdust or floor dry by putting it into the dry waste compactor box.

(9014G)

Subpart B - Notice of the Discharge of Oil or a Hazardous Substance.

(9014H)

153.201 Purpose.

The purpose of this subpart is to prescribe the manner in which the notice required in section 311 (b) (5) of the Act is to be given and to list the government officials to receive that notice.

Note: The notice required in this subpart is in addition to the notice required in 46 CFR 2.20-65 which requires notice to the Coast Guard of certain hazardous materials incidents.

(9014I)

153.203 Procedure for the notice of discharge.

(a) Before January 1, 1977, any person in charge of a vessel or an onshore or offshore facility shall, as soon as he has knowledge of any discharge of oil or a hazardous substance from that vessel or facility in violation of section 311 (b) (3) of the Act, immediately notify by telephone, radio telecommunication or a similar means of rapid communication one of the following persons:

(1) Duty Officer, National Response Center, U.S. Coast Guard, 400 Seventh Street, SW, Washington, D.C. 20590, toll free telephone number 800-424-8802.

(2) The government official predesignated in the applicable Regional Contingency Plan as the On-Scene Coordinator for the geographic area in which the discharge occurs.

NOTE: Regional Contingency Plans are available at Coast Guard District Offices and Environmental Protection Agency (EPA) Regional Offices, as indicated in Table 2. Coast Guard District Office and EPA Regional Office addresses are listed in Table 1.

(3) Commanding Officer or Office-in Charge of any Coast Guard unit in the vicinity of the discharge, or in the case of a discharge into the Panama Canal Zone, the Marine Traffic Control in Cristobal or Balboa.

(4) Commander of the Coast Guard district in which the discharge occurs.

NOTE: Coast Guard Districts and corresponding states may be found in Part 3 of this Chapter.

(b) After December 31, 1976, any person in charge of a vessel or an onshore or offshore facility shall, as soon as he has knowledge of any discharge of oil or a hazardous substance from that vessel or facility in violation of section 311(b)(3) of the Act, immediately notify by telephone, radio telecommunication, or a similar means of rapid communication the official designated in paragraph (a)(1) of this section, except as prescribed in paragraph (c) and (d) of this section.

(c) If after December 31, 1976, to give notice as prescribed in paragraph (b) of this section is impractical, notice may be given to the officials listed in paragraphs (a)(2) through (a)(4) of this section in order of priority.

(d) After December 31, 1976 any person in charge of a vessel or an onshore or offshore facility shall, as soon as he has knowledge of any discharge of oil or a hazardous substance occurring in Alaska or Hawaii from that vessel or facility in violation of section 311(b)(3) of the Act, immediately notify by telephone, radio telecommunications, or a similar means of rapid communications any of the officials listed in paragraphs (a)(2) through (a)(4) of this section.

[¶9014J]

§ 153.205 Fines.

Section 311(b)(5) of the Act prescribes that any person who fails to notify the appropriate agency of the United States Government immediately of a discharge is, upon conviction, subject to a fine of not more than $10,000, or to imprisonment of not more than one year, or both.

TABLE 1.—*Addresses and telephone numbers of Coast Guard district offices and EPA regional offices*

	Address	Telephone
EPA REGIONAL OFFICES		
Region:		
I.....	Room 2303, John F. Kennedy, Federal Bldg., Boston, Mass. 02203.	617-223-7265
II.....	Room 908, 26 Federal Plaza, New York, N.Y. 10007.	201-548-8730
III.....	Curtis Bldg., 6th and Walnut Sts., Philadelphia, Pa. 19106.	215-597-9898
IV.....	1421 Peachtree St. NE., Atlanta, Ga. 30309.	404-526-5062
V.....	230 S. Dearborn Ave., Chicago, Ill. 60604.	312-886-7501
VI.....	Suite 1600, 1600 Patterson St., Dallas, Tex. 75201.	214-749-3840
VII.....	1735 Baltimore Ave., Kansas City, Mo. 64108.	816-374-3778
VIII.....	Suite 900, 1860 Lincoln St., Denver, Colo. 80203.	303-837-3880
IX.....	100 California St., San Francisco, Calif. 94111.	415-556-6254
X.....	1200 6th Ave., Seattle, Wash. 98101.	206-442-1200
COAST GUARD DISTRICT OFFICES		
District:		
1st.....	150 Causeway St., Boston, Mass. 02114.	617-223-3644
2d.....	Federal Bldg., 1520 Market St., St. Louis, Mo. 63101.	314-622-4614
3d.....	Governors Island, New York, N.Y. 10004.	212-264-4800
5th.....	Federal Bldg., 431 Crawford St., Portsmouth, Va. 23705.	703-398-6611
7th.....	Room 1018, Federal Bldg., 51 Southwest 1st Ave., Miami, Fla. 33130.	305-350-5611
8th.....	Customhouse, New Orleans, La. 70130.	504-527-6225
9th.....	1240 East 9th St., Cleveland, Ohio 44199.	216-522-3963
11th.....	Heartwell Bldg., 19 Pine Ave., Long Beach, Calif. 90802.	213-590-2311
12th.....	630 Sansome St., San Francisco, Calif. 94126.	415-556-5500
13th.....	618 2nd Ave., Seattle, Wash. 98104.	206-624-2402
14th.....	677 Ala Moana Blvd., Honolulu, Hawaii 96813.	808-546-7109
17th.....	P.O. Box 3-5000, Juneau, Alaska 99801.	907-586-7340

TABLE 2—STANDARD ADMINISTRATIVE REGIONS OF STATES AND CORRESPONDING COAST GUARD DISTRICTS AND EPA REGIONS

States and EPA region:	Coast Guard district—
Region I:	
Maine	1
New Hampshire	1
Vermont	1
Massachusetts	1
Connecticut	3
Rhode Island	1
Region II:	
New York:	
Coastal area	3
Great Lakes area	9
New Jersey	3
Puerto Rico	7
Virgin Islands	7

[The next page is 9465-7.]

States and EPA region:	Coast Guard district—
Region III:	
Pennsylvania:	
East coast	3
Lakeside	9
Maryland	5
Delaware	3
West Virginia	2
Virginia	5
District of Columbia	5
Region IV:	
Kentucky	2
Tennessee	2
North Carolina	5
South Carolina	7
Georgia	7
Florida	7
Atlantic and Gulf coasts	7
Panhandle	8
Alabama	8
Mississippi	8
Canal Zone	7
Region V:	
Minnesota	9
Wisconsin	9
Michigan	9
Illinois	9
Indiana	9
Ohio	9
Region VI:	
New Mexico	8
Texas	8
Oklahoma	2
Arkansas	2
Louisiana	8
Region VII:	
Nebraska	2
Iowa	2
Kansas	2
Missouri	2
Region VIII:	
Montana	13
Wyoming	2
Utah	12
Colorado	2
North Dakota	2
South Dakota	2
Region IX:	
California:	
Northern	12
Southern	11
Nevada	12
Arizona	11
Hawaii	14
Guam	14
American Samoa	14
Trust Territories of the Pacific	14
Region X:	
Washington	13
Oregon	13
Idaho	13
Alaska	17

Coastal plans for standard regions are available for public inspection.

[¶9014M]

Subpart C—Removal of Discharged Oil

[¶9014N]

§ 153.301 Purpose.

The purpose of this subpart is to prescribe methods and procedures to be used to remove discharges of oil from coastal waters.

[¶9014O]

§ 153.303 Applicability.

The provisions of this subpart apply to any owner or operator of a vessel or onshore or offshore facility from which a discharge of oil into coastal waters occurs who acts to remove or arranges for the removal of such discharges.

[¶9014P]

§ 153.305 Methods and Procedures for the Removal of Discharged Oil.

Each person who removes or arranges for the removal of a discharge of oil from coastal waters shall—

(a) Use to the maximum extent possible mechanical methods and sorbents that—

(1) Most effectively expedite removal of the discharged oil; and

(2) Minimize secondary pollution from the removal operations;

NOTE: The Federal OSC is authorized by the provisions of the National Contingency Plan to require or deny the use of specific mechanical methods and sorbents. Sorbent selection considerations of the OSC include hydrographic and meteorological conditions, characteristics of the sorbent, and availability of a mechanical method for containment and recovery.

(b) Control the source of discharge, prevent further discharges, and halt or slow the spread of the discharge by mechanical methods or sorbents or both to the maximum extent possible;

(c) Recover the discharged oil from the water or adjoining shorelines by mechanical or manual methods or both to the maximum extent possible;

(d) Use chemical agents only in accordance with the provisions of Annex X of the National Contingency Plan and with the prior approval of the Federal OSC; and

(e) Dispose of recovered oil and oil contaminated materials in accordance with applicable State and local government procedures.

CONTAINMENT INSPECTION AND DISCHARGE REPORT

DATE:_____ CONTAINMENT LOCATION:_____

LEAKAGE OBSERVED: ___ YES ___ NO DISCHARGE OBSERVED: ___ YES ___ NO

OPERATION OF CONTAINMENT VALVE:_____

_____

If leak observed, corrective action taken:_____

_____

_____

If spill observed, corrective action taken:_____

_____

_____

If discharge observed, corrective action taken:_____

_____

_____

Notification of Agencies in event of discharge:

DEQ: NAME_____ DATE & TIME_____

EPA: NAME_____ DATE & TIME_____

USCG: NAME_____ DATE & TIME_____

Other observations and remarks:_____

_____

_____

_____

Inspection made by

NOTIFICATION NUMBERS:

EPA - 816-374-3778

IOWA DEQ - 515-281-8694

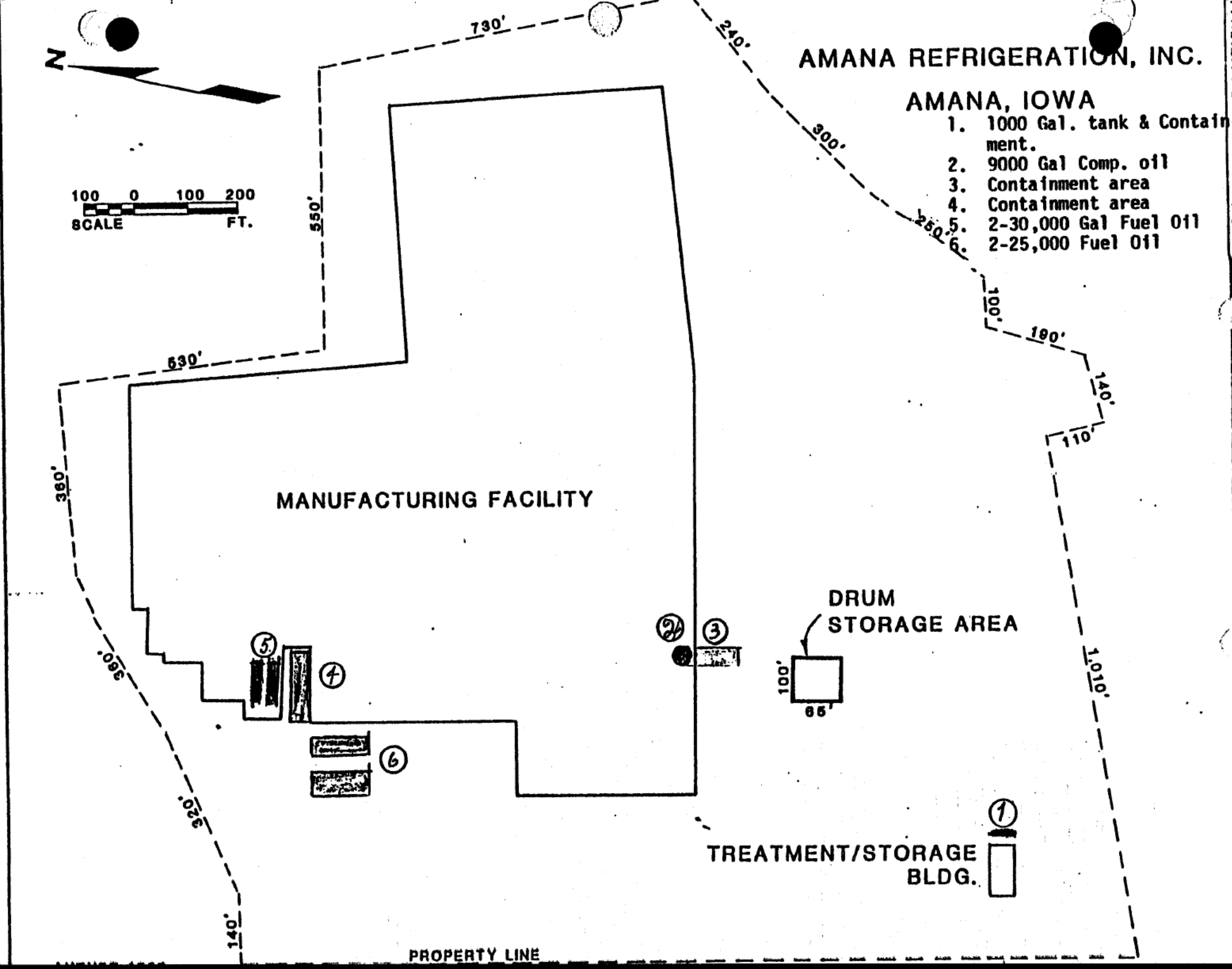
U.S.C.G. - 800-424-8802

CHEMTREC - 800-424-9300

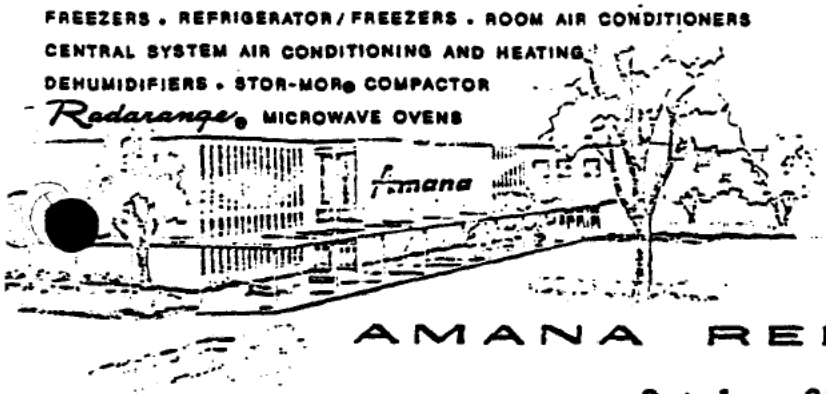
Robert Steiff - [redacted] Ex. 6 PII

Fire Department - 622-3333

Iowa County Sheriff - 642-5613


AMANA REFRIGERATION, INC.
AMANA, IOWA
1. 1000 Gal. tank & Containment.
2. 9000 Gal Comp. oil
3. Containment area
4. Containment area
5. 2-30,000 Gal Fuel Oil
6. 2-25,000 Fuel Oil
N
100 0 100 200
SCALE FT.
730'
240'
300'
250'
100'
190'
140'
110'
1,010'
550'
530'
360'
360'
320'
140'
MANUFACTURING FACILITY
DRUM STORAGE AREA
100'
65'
TREATMENT/STORAGE BLDG.
PROPERTY LINE
FACILITY DRAWING (see page 4.

FREEZERS • REFRIGERATOR/FREEZERS • ROOM AIR CONDITIONERS
CENTRAL SYSTEM AIR CONDITIONING AND HEATING
DEHUMIDIFIERS • STOR-MOR® COMPACTOR
Radarange® MICROWAVE OVENS



AMANA REFRIGERATION, INC.

AMANA, IOWA 52204

October 28, 1981

Mr. Robert M. Sayre
Iowa Department of Environmental Quality
Regional Office #6
117 N. 2nd Avenue, P.O. Box 27
Washington, Iowa 52353

Dear Mr. Sayre:

Enclosed you will find a copy of our Hazardous Waste Plan consisting of the Contingency Plan and Appendix A - J. Also enclosed is a scale print of Appendix B & G; Appendix I is our oil S.P.C.C. Plan.

Included also is our Waste Analysis Plan. The analysis and back-up for this plan will be kept on file in the Hazardous Waste Treatment Facility.

We are also enclosing the Closure Plan which includes Plan for Financial Assurance for Closure and Liability Insurance. These will be implemented by EPA's effective date. The specimens of Job Titles showing required training and training records: - these forms will be kept on file at the Waste Treatment Facility.

Enclosed also are copies of the Operating Records (daily, monthly, yearly) and Inspection Reports (daily, weekly, monthly).

Records will be readily available in our Waste Treatment Facility. Should you have any questions, please contact me at Amana Refrigeration, Inc., (319) 622-5511, Extension 2171.

Sincerely,

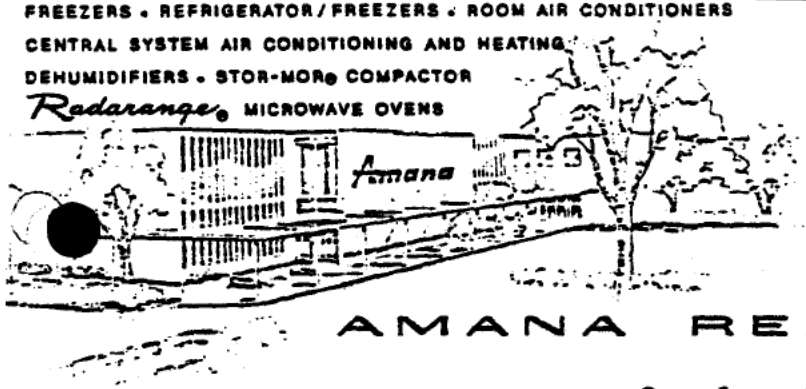
AMANA REFRIGERATION, INC.

Leonard Rettig

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

LR:rmt

cc: Mr. Ronald Kolpa



AMANA REFRIGERATION, INC.

AMANA, IOWA 52204

October 28, 1981

Mr. Ronald L. Kolpa
Dept. of Environmental Quality
Henry A. Wallace Building
900 East Grand
Des Moines, Iowa 50319

Dear Mr. Kolpa:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

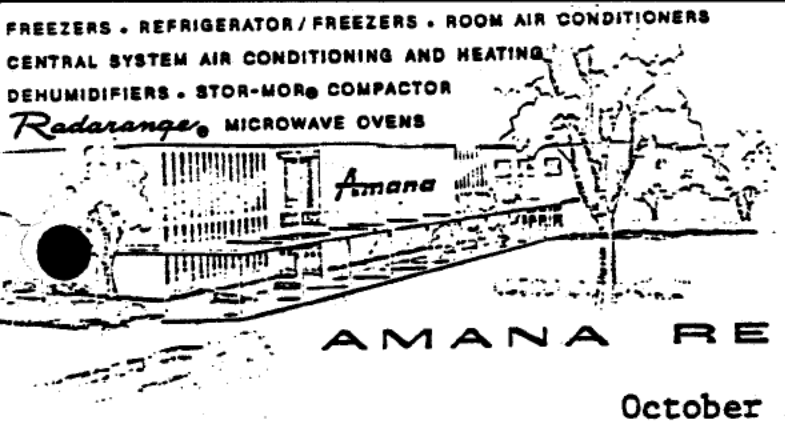
The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



AMANA REFRIGERATION, INC.

October 28, 1981 AMANA, IOWA 52204

D.E.Q. Regional Office
Region # 6
Washington, Iowa 52353

Gentlemen:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

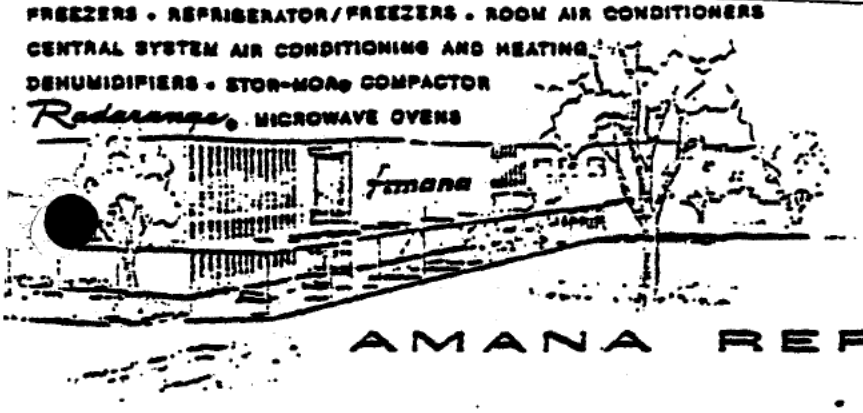
Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC

October 28, 1981

AMANA, IOWA 5220

Mr. Dean Henny
Homestead Fire Chief
Homestead, Iowa 52236

Dear Mr. Henny:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

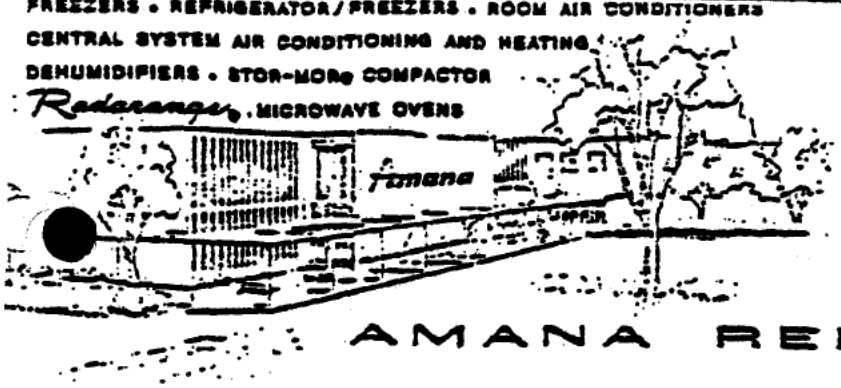
Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt

APPENDIX J



AMANA REFRIGERATION, INC.

AMANA, IOWA 52204

October 28, 1981

Mr. Russell Ehrman
South Amana Fire Chief
South Amana, Iowa 52334

Dear Mr. Ehrmann:

Current Federal Regulations require all generators of hazardous waste to familiarize local Fire Departments with facility lay-outs, properties of hazardous wastes, evacuation routes, etc., so that if assistance is necessary it will be accomplished in a coordinated manner.

As our facility is a generator of hazardous wastes and we have identified ourselves as such to the proper Federal and/or State agencies, we are required to comply with these notification obligations.

Would you please contact the writer at your convenience so that arrangements can be made to properly address our obligations concerning this issue.

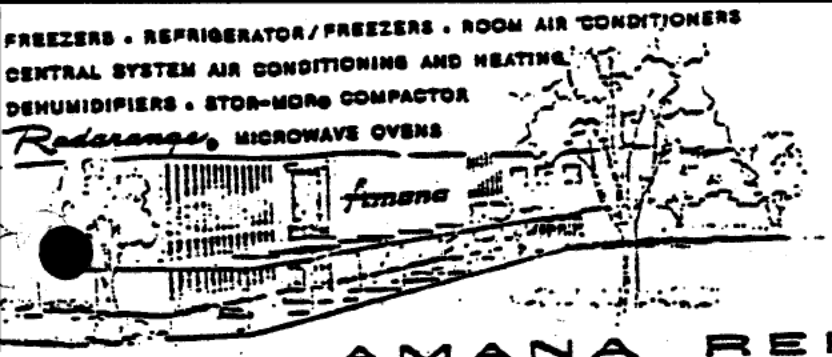
Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

LR:rmt

APPENDIX J



AMANA REFRIGERATION, INC.

October 28, 1981

AMANA, IOWA 52204

Mr. Russell Ehrman
South Amana Fire Chief
South Amana, Iowa 52334

Dear Mr. Ehrman:

To comply with CRF 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

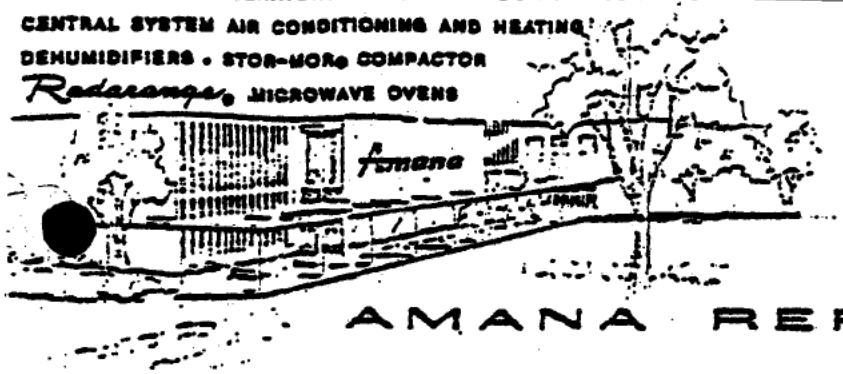
The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC.

October 28, 1981

AMANA, IOWA 52204

Mr. Raymond Oehl
Main Amana Fire Chief
Amana, Iowa 52203

Dear Mr. Oehl:

Current Federal Regulations require all generators of hazardous waste to familiarize local Fire Departments with facility lay-outs, properties of hazardous wastes, evacuation routes, etc., so that if assistance is necessary it will be accomplished in a coordinated manner.

As our facility is a generator of hazardous wastes and we have identified ourselves as such to the proper Federal and/or State agencies, we are required to comply with these notification obligations.

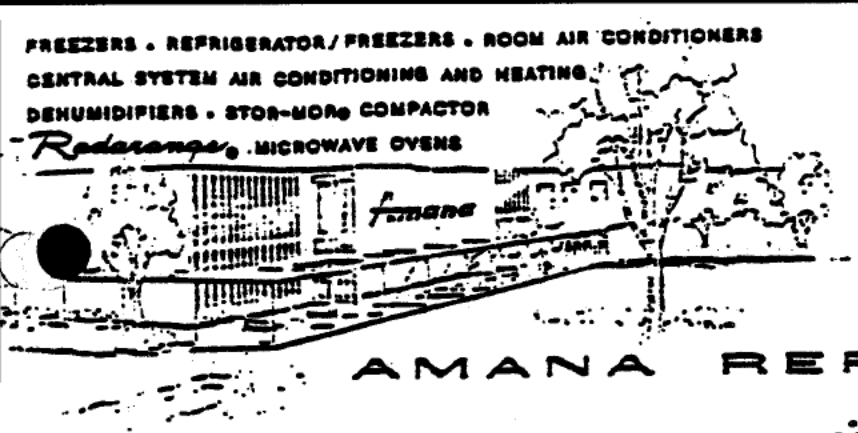
Would you please contact the writer at your convenience so that arrangements can be made to properly address our obligations concerning this issue.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC

October 28, 1981

AMANA, IOWA 52204

Mr. Raymond Oehl
Main Amana Fire Chief
Amana, Iowa 52203

Dear Mr. Oehl:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

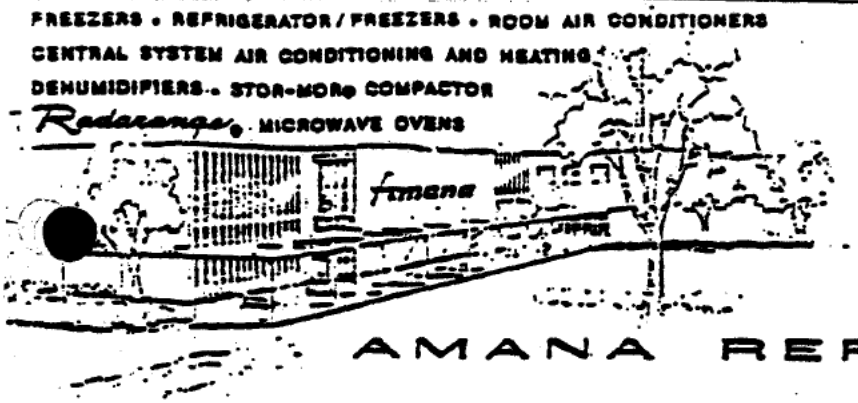
The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC

AMANA, IOWA 52204

October 28, 1981

Mr. Leroy Trumpold
Middle Amana Fire Chief
Middle, Iowa 52307

Dear Mr. Trumpold:

Current Federal Regulations require all generators of hazardous waste to familiarize local Fire Departments with facility lay-outs, properties of hazardous wastes, evacuation routes, etc., so that if assistance is necessary it will be accomplished in a coordinated manner.

As our facility is a generator of hazardous wastes and we have identified ourselves as such to the proper Federal and/or State agencies, we are required to comply with these notification obligations.

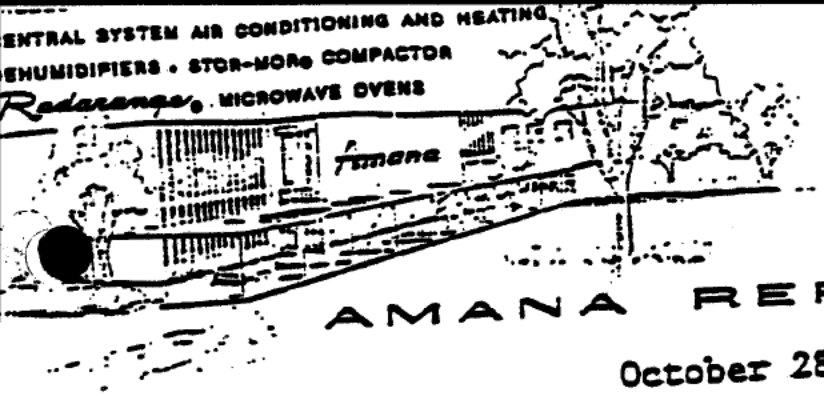
Would you please contact the writer at your convenience so that arrangements can be made to properly address our obligations concerning this issue.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC.

AMANA, IOWA 52204

October 28, 1981

Mr. Leroy Trumpold
Middle Amana Fire Chief
Middle, Iowa 52307

Dear Mr. Trumpold:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

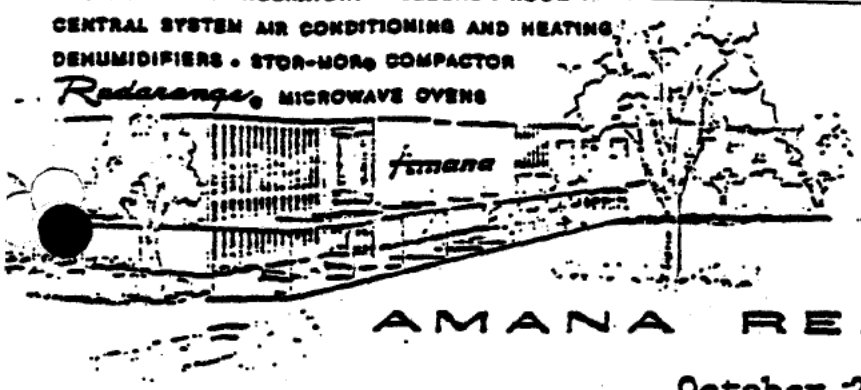
Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt

Coordination of Fire Emergency



APPENDIX J

AMANA REFRIGERATION, INC

October 28, 1981

AMANA, IOWA 522

Dr. L. D. Caraway
Amana Medical Clinic
Amana, Iowa 52203

Dear Dr. Caraway:

Current Federal Regulations require all generators of hazardous waste to familiarize local medical clinics with the properties of such materials handled at their facility and the types of illnesses or injuries which could result from fires, explosion or releases involving industrial wastes.

As our facility is a generator of hazardous wastes and we have identified ourselves as such to the proper Federal and/or State agencies, we are required to comply with these notification obligations.

Since the information required to properly meet this obligation does not easily lend itself to written communication, it would seem appropriate to arrange a meeting to assess how to properly respond to these requirements.

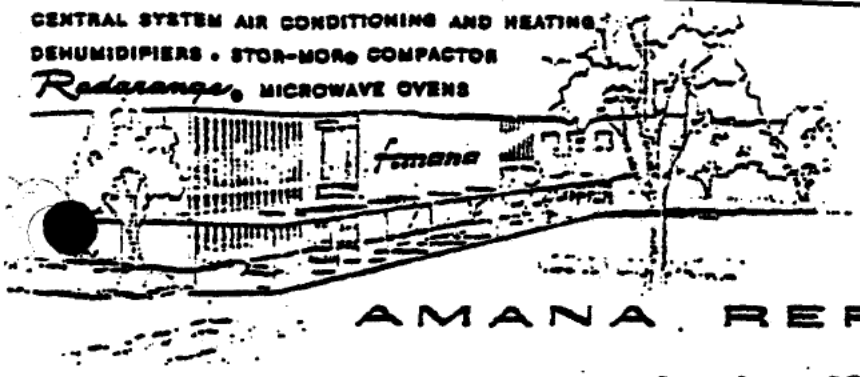
Would you please contact the writer concerning this subject so that an effective arrangement can be achieved.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

LR:rmt



APPENDIX 3

AMANA REFRIGERATION, INC

October 28, 1981

AMANA, IOWA 5220

Dr. L. D. Caraway
Amana Medical Clinic
Amana, Iowa 52203

Dear Dr. Caraway:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

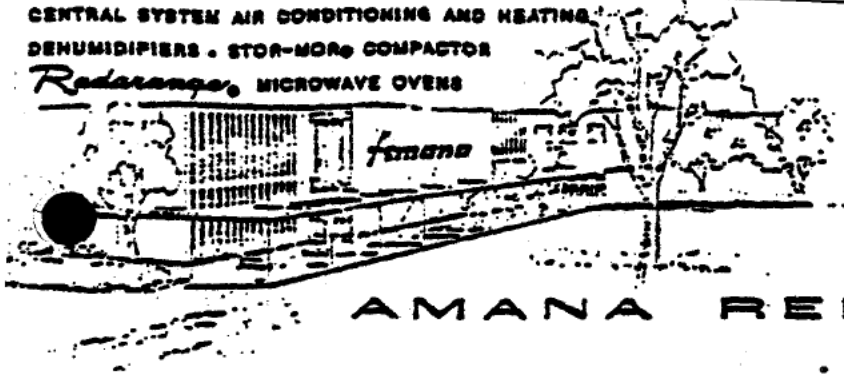
The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



AMANA REFRIGERATION, INC

AMANA, IOWA 5220

October 28, 1981

Mr. Jim Slockett
Sheriff - Iowa County
Marengo, Iowa 52301

Dear Mr. Slockett:

Current Federal Regulations require all generators of hazardous waste to familiarize local Sheriff Departments with facility layouts, properties of hazardous wastes, evacuation routes, etc., so that if assistance is necessary it will be accomplished in a coordinated manner.

As our facility is a generator of hazardous wastes and we have identified ourselves as such to the proper Federal and/or State agencies, we are required to comply with these notification obligations.

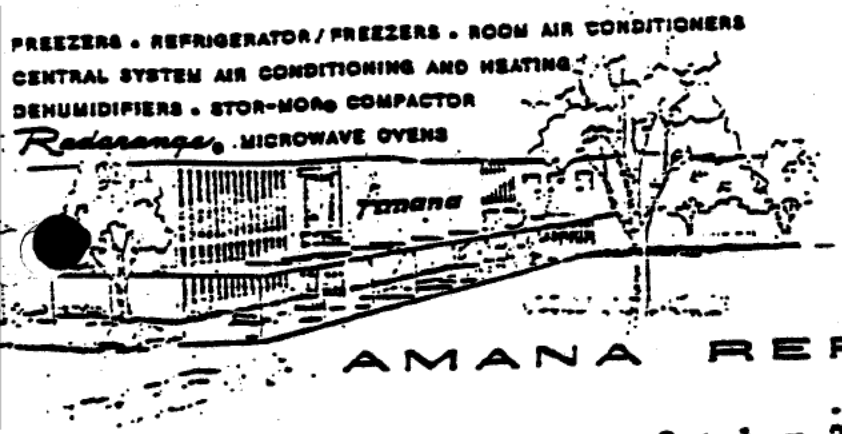
Would you please contact the writer at your convenience so that arrangements can be made to properly address our obligations concerning this issue.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC.

AMANA, IOWA 52204

October 28, 1981

Mr. Jim Slockett
Sheriff - Iowa County
Marengo, Iowa 52301

Dear Mr. Slockett:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

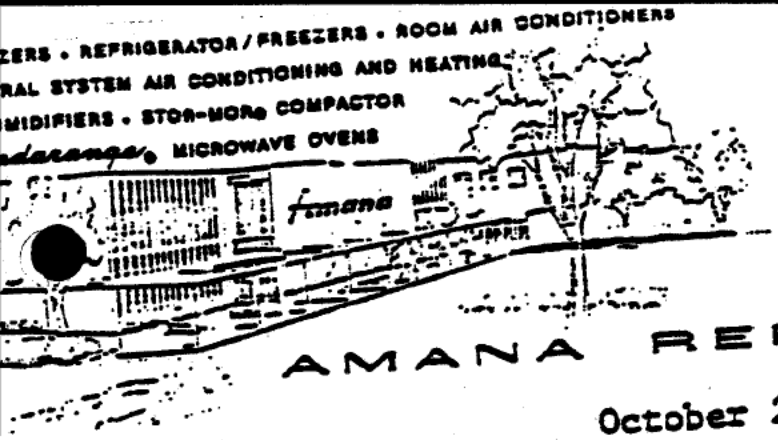
Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt

APPENDIX J



AMANA REFRIGERATION, INC.

AMANA, IOWA 52204

October 28, 1981

D.E.Q. Regional Office
Region # 6
Washington, Iowa 52353

Gentlemen:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

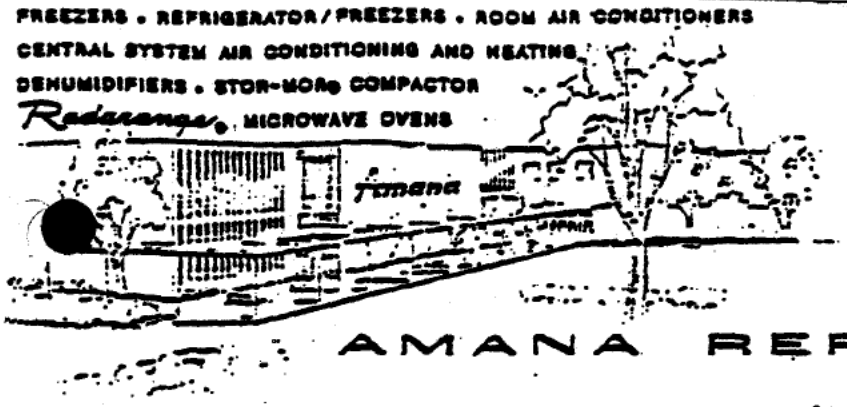
The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC.

October 28, 1981 AMANA, IOWA 52204

Mr. Ronald L. Kolpa
Dept. of Environmental Quality
Henry A. Wallace Building
900 East Grand
Des Moines, Iowa 50319

Dear Mr. Kolpa:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

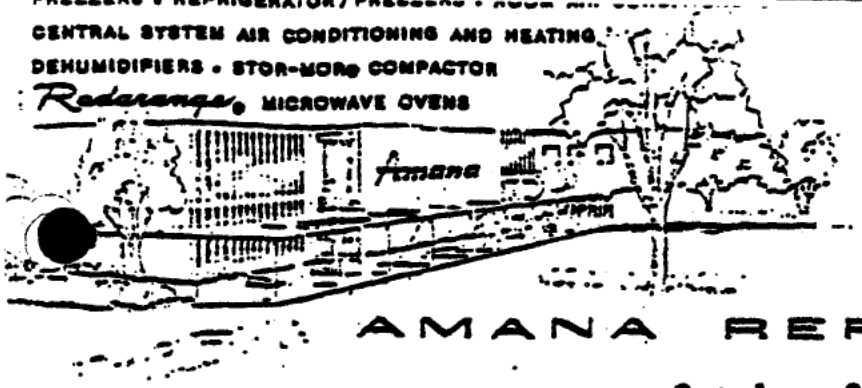
The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt



APPENDIX J

AMANA REFRIGERATION, INC

October 28, 1981

AMANA, IOWA 52204

Director - Iowa County Civil Defense
Marengo, Iowa 52301

Dear Sir:

To comply with CFR 40, 265.51-55, it becomes necessary to amend our contingency plan. Enclosed you will find an amended contingency plan for Amana Refrigeration, Inc.

The enclosed contingency plan replaces the previous one which was sent to you earlier. Whether you do or do not desire to provide the assistance in the plan, please indicate your intentions in writing to the undersigned. Your cooperation will be greatly appreciated.

Sincerely,

AMANA REFRIGERATION, INC.

Leonard Rettig
Chief Engineer-Construction
& Hazardous Waste Coordinator

Enclosure
LR:rmt

PERSONNEL JOB DESCRIPTIONS

HAZARDOUS WASTE PERSONNEL JOB DESCRIPTIONS AND TRAINING REQUIREMENTS

F O R

AMANA REFRIGERATION, INC.
FIRST & D STREET
MIDDLE, IOWA 52307

TABLE OF CONTENTS

JOB DESCRIPTION

NAME:

TITLE: Superintendent-Waste Treatment Facility & Emergency Coordinator of Hazardous Waste

REPORT TO: Chief Engineer-Construction

Experience and/or training shall be required and approved by D.E.Q. for this facility.

Provide licensed supervision of the operation of the facility and the related tests required to meet E.P.A. and D.E.Q. regulations:

- Active, on-site technical direction and supervision of one or more operating shifts.
- Day-to-day operation of cleaning and maintenance of pumps, mixing of chemicals, stocking of chemicals, mixers, proportioners, centrifuge, aerator, clarifier, filters, weirs, digester and such other equipment related to the facility.
- Day-to-day sampling and testing of water and wastes. Tests include: BOD, COD, Total Solids, Dissolved Solids, Oil, PH, Phenol, Chromium, Zinc and other such tests as may be necessary.

Labeling of hazardous waste containers.

Inspection of hazardous waste treatment facility.

Inspection of hazardous waste storage area.

Inspection and testing of rain water filled containment areas and drainage of same.

Record all required data and file copies.

Prepare shipping manifests and file copies.

Coordinate for emergencies:

- Respond to contingency plan and spill prevention control and countermeasure plan.

All above as prescribed in 40 CFR, 262 - 265.

_____ _____ _____ _____

Chief Engineer-Construction

TRAINING REQUIRED FOR HAZARDOUS WASTE COORDINATOR

Name _____

1. The proper use and maintenance of the following:
   A. Fire Equipment
   B. Protective Clothing
   C. Chemical spill clean-up materials and equipment
   D. Respiratory protective equipment.

2. The proper procedures to follow in case of a spill and/or leak of the following:
   A. Toxic waste
   B. Corrosive waste
   C. Reactive waste
   D. Ignitable waste

3. Safe handling practices of above materials.

4. Inspection and record keeping procedures for:
   A. Hazardous waste storage facilities.
   B. Hazardous waste treatment facilities.

	Date	Instructor	Instructor's Title	Amount Train
1-A				
1-B				
1-C				
1-D				
2-A				
2-B				
2-C				
2-D				
3-A				
3-B				
3-C				
3-D				
4-A				
4-B				

DATES FOR TRAINING - New assigned personnel must be trained by six months after beginning the position. Annual review of the above training is requi

EMPLOYEE JOB DESCRIPTION

NAME:

TITLE: Tool Designer

REPORT TO: Manager - Tool Engineering

Responsibilities:

1. Process Amana fabricated parts.
2. Determine tooling requirements, specifying and ordering same.
3. Design and specify special machines and fixtures, as required.
4. Issue tooling work orders for die repairs.
5. Provide tooling estimates for new and revised parts.
6. Analyze and prescribe a course of action on production problems concerning dimensional stability of parts and piece-part production.
7. Process Engineering changes and correct tooling.
8. Consult with Design Engineering on design of both new and revised parts in an effort to keep tooling and labor costs low, yet maintaining high quality.
9. Coordinate die tryouts with Production Control.
10. Be present at die tryouts, whenever possible.
11. Analyze die tryouts and take appropriate action.
12. Perform special work as directed by Manager-Tool Engineering.
13. Coordinate for emergencies:
    - Respond to contingency plan and spill prevention control and countermeasure plan.
14. The proper use and maintenance of the following:
    A. Fire Equipment
    B. Protective Clothing
    C. Chemical spill clean-up materials and equipment
    D. Respiratory protective equipment
15. The proper procedures to follow in case of a spill and/or leak of the following:
    A. Toxic waste
    B. Corrosive waste
    C. Reactive waste
    D. Ignitable waste
16. Safe handling practices of above materials.

Tool Designer

Manager-Tool Engineering

TRAINING REQUIRED FOR ALTERNATE HAZARDOUS WASTE COORDINATOR

Name _____

1. The proper use and maintenance of the following:
   A. Fire Equipment
   B. Protective Clothing
   C. Chemical spill clean-up materials and equipment
   D. Respiratory protective equipment.

2. The proper procedures to follow in case of a spill and/or leak of the following:
   A. Toxic waste
   B. Corrosive waste
   C. Reactive waste
   D. Ignitable waste

3. Safe handling practices of above materials.

Date	Instructor	Instructor's Title	Amoun Trai
1-A			
1-B			
1-C			
1-D			
2-A			
2-B			
2-C			
2-D			
3-A			
3-B			
3-C			
3-D			

DATES FOR TRAINING - New assigned personnel must be trained by six months after beginning the position. Annual review of the above training is requ

NAME:

TITLE: Foreman - Injection Molding

REPORT TO: Superintendent - 3rd Shift

RESPONSIBILITIES:
Know safety rules and regulations and see that they are properly enforced at all times.

Know location of fire extinguisher, fire hoses, exits, etc., in department. Instruct leadmen on operation of fire equipment and workers on exits.

See that quality standards set up by Company engineers and Management are maintai

See that department schedules published by Production Control are met, within labor standards.

Maintain a housekeeping program acceptable to Management.

Keep scrap at an acceptable level.

See that good working conditions are maintained.

Maintain good working relations with workers, Union stewards, Union officials and other supervisors and [illegible]

Know, follow, and enforce Labor Contract [illegible] attempt to resolve grievances at Step 1.

Participate actively in the Cost Reduction Program.

Work with Manufacturing Engineering on new methods, production problems and reducing costs where possible without interfering with quality.

Check projected schedules and work on problems that may arise as to machine and department loads.

Check for proper use of factory supplies, tools and equipment.

Maintain a steady flow of proper parts throughout department.

When department has more than one shift, relay appropriate information and meet with supervisors.

Maintain, file or turn in proper records/reports as required.

Properly train and instruct employees.

Properly select and train a back-up person.

Follow process instructions, blue prints, issue sheets, standing instructions, guideline and procedure manuals, etc.

The proper use and maintenance of the following:

A. Fire Equipment
B. Protective Clothing
C. Chemical spill clean-up materials and equipment
D. Respiratory protective equipment

The proper procedures to follow in case of a spill and/or leak of the following:

A. Toxic waste
B. Corrosive waste
C. Reactive waste
D. Ignitable waste

Safe handling practices of above materials

Injection Molding Foreman, 3rd Shift
10/16/81

3rd Shift Superintendent
10/16/81

TRAINING REQUIRED FOR BRIGADE FIREMEN
(DESIGNATED SPILL CONTROL MEMBERS)

Name _____

1. The proper use and maintenance of the following:
   - A. Fire Equipment
   - B. Protective Clothing
   - C. Chemical spill clean-up materials and equipment
   - D. Respiratory protective equipment.

2. The proper procedures to follow in case of a spill and/or leak of the following:
   - A. Toxic waste
   - B. Corrosive waste
   - C. Reactive waste
   - D. Ignitable waste

3. Safe handling practices of above materials.

Date	Instructor	Instructor's Title	Amount of Training
-A			
-B			
-C			
-D			
-A			
-B			
-C			
-D			
-A			
-B			
-C			
-D			

DATES FOR TRAINING - New assigned personnel must be trained by six months after beginning the position. Annual review of the above training is required

JOB DESCRIPTION

NAME:

TITLE: Technician - Waste Treatment Facility

REPORT TO: Superintendent of Waste Treatment Facility

Duties and Responsibilities:

Experience and/or training shall be as required and approved by D.E.Q. for this facility.

Provide operation of the facility and assist with the related tests required to meet E.P.A. and D.E.Q. regulations:

- Day-to-day operation, cleaning and maintenance of pumps, mixing of chemicals, stocking of chemicals, mixers, proportioners, centrifuge, chlorinator, clarifier, filters, weirs, digester and such other equipment related to the facility.
- Day-to-day sampling and testing of water and wastes as required to operate the facility.

Perform such other duties and tests as time permits and as directed by the Superintendent.

E.P.A. requires:

Labeling of hazardous waste containers.
Inspection of hazardous waste treatment facility.
Inspection of hazardous waste storage area.
Inspection and testing of rain water filled containment areas and drainage of same.
Record all required data and file copies.
Prepare shipping manifests and file copies.

Respond to contingency plan and spill prevention control and countermeasure plan.

All above as prescribed in 40-CFR 262-265.

_____ _____ Superintendent-Waste Treatment Facility

TRAINING REQUIRED FOR WASTE TREATMENT PERSONNEL

Name _____

1. The proper use and maintenance of the following:
   A. Fire Equipment
   B. Protective Clothing
   C. Chemical spill clean-up materials and equipment
   D. Respiratory protective equipment.

2. The proper procedures to follow in case of a spill and/or leak of the following:
   A. Toxic waste
   B. Corrosive waste
   C. Reactive waste
   D. Ignitable waste

3. Safe handling practices of above materials.

4. Inspection and record keeping procedures for:
   A. Hazardous waste storage facilities.
   B. Hazardous waste treatment facilities.

Date	Instructor	Instructor's Title	Amount Traini
1-A			
1-B			
1-C			
1-D			
2-A			
2-B			
2-C			
2-D			
3-A			
3-B			
3-C			
3-D			
4			

DATES FOR TRAINING - New assigned personnel must be trained by six months after beginning the position. Annual review of the above training is require

AMANA REFRIGERATION, INC.
AMANA, IOWA
JOB DESCRIPTION

GRADE 6

JOB TITLE: FORK TRUCK OPERATOR
NAME: _____

GENERAL DESCRIPTION:
Operates Power Lift Trucks

JOB INCLUDES SKILLS OF THE FOLLOWING NATURE:
1. Use of fork lift trucks.
2. Ability to judge distance and height.
3. Ability to exercise appropriate caution concerning weight of load, type of load, speed of travel and traffic conditions.

RESPONSIBILITIES INCLUDE:
1. Transports various types of materials. Includes fabricated and vender parts, scrap, waste, finish goods, etc. Locates material in proper places.
2. Places and removes dies in equipment such as presses, storage racks and machines found in factory.
3. Loads and unloads railway cars and trucks.
4. Proper operation of fork truck. Includes oil and fuel check of unit when applicable at start of each [illegible] condition report weekly of the fork truck for operation and maintenance.
5. Reports any accident or malfunction of fork truck to supervisor immediately. Includes accident to person, factory property, the fork truck and material being transported or handled.
6. Follow rules for safe operation with fork truck with due regard to pedestrian, factory property, the fork truck and material being transported or handled.
7. Performs other related duties as assigned. Examples of some, not conclusive.
   A. Participates in housekeeping activities.
   B. Preparation of material for movement by fork truck.
   C. Participates in material systems for storage and placement.
   D. Participates in scheduling systems for loading material, bringing material to equipment or machines. Includes special tooling for machines.

"Transport containers of hazardous waste from Production area to hazardous waste storage area. Ascertain that all containers and bunks are secure before transporting."

"Must understand and follow training of safety and emergency procedures in the handling of hazardous waste."

TRAINING REQUIRED FOR FORK TRUCK OPERATORS

Name _____

1. Training for power lift truck operators for the safe operation and maintenance of a power lift truck.
2. Safe handling practices of hazardous materials.
3. The procedures to follow in case of a spill or leaking container of:
   - A. Toxic waste
   - B. Corrosive waste
   - C. Reactive waste
   - D. Ignitable waste

Date of Training for [illegible]

	Date	Instructor	Instructor's Title	Amount of Training
1.				
2.				
3/A.				
3/B.				
3/C.				
3/D.				
1.				
2.				
3/A.				
3/B.				
3/C.				
3/D.				

DATES FOR TRAINING - New assigned personnel must be trained by six months after beginning the position. Annual review of the above training is required.

WEEKLY INSPECTION OF HAZARDOUS WASTE
STORAGE AREA

DATE_____

TIME_____

E NAME	NO. OF DRUMS IN STORAGE	NO. OF DRUMS LEAKING	NO. OF DRUMS DAMAGED AND DETERIORATED DRUMS	CORRECTION MADE IF LEAKING OR DETERIORATION IS NOTED

OBSERVATIONS OF HAZARDOUS STORAGE AREA

INSPECTED BY

WEEKLY - INSPECTION OF HAZARDOUS WASTE AT TREATMENT PLANT

MONTH _____ YEAR _____

Items to be inspected for corrosion, leaks, free board, deterioration.

ITEMS TO BE INSPECTED	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Chrome Underground Tank																															
Chrome Transfer Pumps																															
Chrome Reduction Module																															
Kolene Mix Tank																															
Time of Inspection																															
Inspectors Name																															

DATE	OBSERVATION	DATE	CORRECTIONS MADE

Inspector

Robert Steiff R.S.
Thomas Hoyer T.H.
Frank Ollinger F.O.

X indicates no discrepancy

DATE _____

MONTHLY INSPECTION

SELF-CONTAINED BREATHING APPARATUS

ir Pak No.										
auge Reading On Air Cylinder										
ead Bands										
alve Connections										
ace Piece, Shield										
ace Piece, Rubber										
ir Line Hose										
ubber Flex Hose										
egulator										
arning Device										
Clear										
ss To Air Pak Obstructed										
uge Reading On Spare Cylinders										

MONTHLY PRODUCTION AND DISPOSAL OF HAZARDOUS WASTE

Month _____

	PAINT WASTE (ELECTRO DEP. PAINTING SYSTEM)			KOLENE SALT FROM PAINT STRIPPING			WASTE TOLUOL OR (TOLUENE)			TOLUENE DIISOCYONATE (FOAM A SIDE)			1-1-1 TRICHLOROETHANE			METHYLENE CHLORIDE (FOAM FLUSH)			POLYETHER POLYOL (FOAM B SIDE)			RAW PAINT			CHROME RINSE (PARTS WASHER)		
	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT DISPOSED	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT TREATED	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT SHIPPED TO RECYCLER	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT DISPOSED	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT RECYCLED	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT RECYCLED	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT DISPOSED	TOTAL IN STORAGE AREA	AMOUNT ADDED/ STORAGE AREA	AMOUNT DISPOSED		AMOUNT TREATED/GAL.	
1																											1
2																											2
3																											3
4																											4
5																											5
6																											6
7																											7
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29																											29
30																											30
31																											31
TOTAL DRUMS																											
TOTAL GALS.																											
TOTAL LBS.																											

See Back For EPA Record-Keeping Requirement & Waste Descriptions.

EPA RECORD-KEEPING REQUIREMENTS
WASTE DESCRIPTIONS

Name of Waste	Physical Form	E.P.A. ID NO.	Density	Storage Code	Treatment Code	Disposal Code
Paint Waste (Electro Dep. Painting System)	Solid	D-002	11.6#	S01	T-23	D-81
Kolene Salt (Paint Stripping Operation)	Solid	D-002	10.0#	S01	T-31	D-81 Non-Hazardous Landfill
Toluene	Liquid	F-005	7.3	S01	N/A	D-85 Recycler
Toluene Diisocyonate (Foam "A")	Liquid	U-223	10.0#	S01	N/A	D-85 Incinerator
1-1-1 Trichloroethane	Liquid.	F-001	9.0#	S01	N/A	D-85 Recycler
Methylene Chloride (Foam Flush)	Liquid	F-002	10.0#	S01	N/A	D-85 Recycler
Polyether Polyol (Foam "B")	Liquid	F-002	10.0#	S01	N/A	D-85 Incinerator
Raw Paint	Liquid	F-003, F-005		S01	N/A	D-85 Incinerator
Chrome Rinse (Parts Washer Operation)	Liquid	D-007	8.3#	S02	T-24 T-46	D-81 Non-Hazardous Landfill

Storage Code:

S01 - Container (barrel, drums, etc.)
S02 - Tank

Disposal Code:

D-81 - Landfill
D-85 - Incinerator
D-85 - Recycler

Treatment Code:

T-23 - Chemical precipitation
T-31 - Neutralization
T-24 - Chemical reduction
T-46 - Ultrafiltration

Annual Report

Report all waste in weight as Short Tons (2,000/lbs.) with a Symbol of "T".

For Monthly & Annual Production & Disposal Reports, use the following:

Report in U.S. Gallons Symbol of "G".

ANNUAL PRODUCTION & DISPOSAL OF HAZARDOUS WASTE

YEAR _____

HAZARDOUS WASTE GENERATED

DATE	DAY OF WEEK	PAINT WASTE (ELECTRO. DEP) UNITS	XOLENE SALT UNITS	TOLUENE (TOLIOL) UNITS	TOLUENE DI-ISOCTONATE (FOAM "A" SIDE) UNITS	1-1-1 TRI-CHLOROETHANE UNITS	METHLENE CHLORIDE (FOAM FLUSH) UNITS	POLYETHER POLYOL (FOAM "B" SIDE) UNITS	RAW PAINT UNITS	CHROME RINSE UNITS	UNITS
JAN. 1											
2											
FEB. 3											
4											
MARCH 5											
6											
APRIL 7											
8											
MAY 9											
10											
JUNE 11											
12											
JULY 13											
14											
AUG. 15											
16											
SEPT. 17											
18											
OCT. 19											
20											
NOV. 21											
22											
DEC. 23											
24											
25											
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27											
28											
29											
30											
31											
TOTAL DRUMS											
TOTAL GALS.											
TOTAL LBS.											

HAZARDOUS WASTE DISPOSED

PAINT WASTE (ELECTRO. DEP.) UNITS	XOLENE SALT UNITS	TOLUENE (TOLIOL) UNITS	TOLUENE DI-ISOCTONATE (FOAM "A" SIDE) UNITS	1-1-1 TRI-CHLOROETHANE UNITS	METHLENE CHLORIDE (FOAM FLUSH) UNITS	POLYETHER POLYOL (FOAM "B" SIDE) UNITS	RAW PAINT UNITS	CHROME RINSE TREATED UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	DATE
															1
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SEE BACK FOR EPA RECORD-KEEPING REQUIREMENTS WASTE DESCRIPTIONS.

SIGNATURE OF EXECUTIVE OF [illegible] DEPARTMENT

EPA RECORD-KEEPING REQUIREMENTS
WASTE DESCRIPTIONS

Name of Waste	Physical Form	E.P.A. ID NO.	Density	Storage Code	Treatment Code	Disposal Code
Paint Waste (Electro Dep. Painting System)	Solid	D-002	11.6#	S01	T-23	D-81
Kolene Salt (Paint Stripping Operation)	Solid	D-002	10.0#	S01	T-31	D-81 Non-Hazardous Landfill
Toluene	Liquid	F-005	7.3	S01	N/A	D-85 Recycler
Toluene Diisocyonate (Foam "A")	Liquid	U-223	10.0#	S01	N/A	D-85 Incinerator
1-1-1 Trichloroethane	Liquid	F-001	9.0#	S01	N/A	D-85 Recycler
Methylene Chloride (Foam Flush)	Liquid	F-002	10.0#	S01	N/A	D-85 Recycler
Polyether Polyol (Foam "B")	Liquid	F-002	10.0#	S01	N/A	D-85 Incinerator
Raw Paint	Liquid	F-003, F-005		S01	N/A	D-85 Incinerator
Chrome Rinse (Parts Washer Operation)	Liquid	D-007	8.3#	S02	T-24 T-46	D-81 Non-Hazardous Landfill

SPECIMEN

Storage Code:

S01 - Container (barrel, drums, etc.)
S02 - Tank

Disposal Code:

D-81 - Landfill
D-85 - Incinerator
D-85 - Recycler

Treatment Code:

T-23 - Chemical precipitation
T-31 - Neutralization
T-24 - Chemical reduction
T-46 - Ultrafiltration

Annual Report

Report all waste in weight as Short Tons (2,000/lbs.) with a Symbol of "T".

For Monthly & Annual Production & Disposal Reports, use the following:

Report in U.S. Gallons Symbol of "G".

TRAINING INFORMATION

AMANA HAZARDOUS WASTE TRAINING

Part I

15 min.	Introduction
25 min.	Hazardous Waste in Iowa
50 min.	RCRA, What is It and What are Your Responsibilities?
20 min.	Questions & Answers

Part II

15 min.	Hazardous Waste Generation at Amana Nature of the waste streams Location of waste streams Potential volumes to be handled
25 min.	Treatment & Storage of Hazardous Waste at Amana Hex Chromium - treatment Kolene salt - treatment Raw paint waste Toluene waste H-1 Trichloroethane Toluene Di-isocyonate PolyetherPolyol waste Methlene Chloride
15 min.	Safety When Working with Hazardous Waste -TDI Flammables Poisons
35 min.	Introduction to Hazardous Waste Plan Step by Step through the plan with discussion on the why and how of the plan

Part III

45 min.	Use of the Contingency Plan A series of questions and problems to be answered from past experience and through use of the plan.
30 min.	Hazardous Waste Spill: response and safety when fire is involved.
20 min.	Hazardous Waste Storage Area: operation and procedures, or a walk through the area.
25 min.	Discussion of Overall Plan and its use to include discussion of past TDI spill.